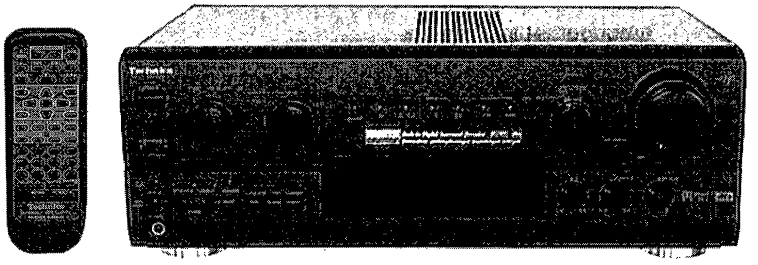
ORDER NO. MD9905089C2

Service Manual

AV Control Stereo Receiver

Receiver

SA-DX930



Colour

(K) . . . Black Type

Area

Suffix for Model No.	Area	Colour
(E)	Europe	(K)
(EB)	Great Britain	
(EG)	Germany & Italy	

Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" , the double-D symbol and "PRO LOGIC" are trade marks of Dolby Laboratories Licensing Corporation.

This product is manufactured under licence from DTS, Inc. of America.

■ Specifications

■ AMPLIFIER SECTION

Power output
- **DIN 1 kHz (T.H.D. 1%)** 2 X 100 W (6Ω)
- **20 Hz - 20 kHz continuous power output both channels driven** 2 X 80 W (6Ω)

Total harmonic distortion
- **Rated power at 20 Hz – 20 kHz** 0.05% (6Ω)
- **Half power at 1 kHz** 0.03% (6Ω)

Power output at the Dolby Pro Logic operation
- **DIN 1 kHz (T.H.D. 1%)**
  - **Front** 2 X 100 W (6Ω)
  - **Center** 100 W (6Ω)
  - **Surround** 2 X 100 W (6Ω)

Power bandwidth
- **both channel driven, -3 dB** 10 Hz - 40 kHz (6Ω)

Damping factor 30 (6Ω)

Load impedance
- **Front**
  - **A or B** 4 - 16 Ω
  - **A and B** 8 - 16 Ω
- **Center** 6 - 16 Ω
- **Surround** 6 - 16 Ω

Frequency response
- **PHONO** RIAA standard curve ± 0.8 dB
- **CD, TAPE, DVD, VCR, TV** 10 Hz – 70 kHz, ± 3 dB

Input sensitivity and impedance
- **PHONO** 3 mV / 47 kΩ
- **CD, TAPE, DVD, VCR, TV** 200 mV / 22 kΩ

S/N at rated power (6Ω)
- **PHONO** 70 dB (IHF, A : 80 dB)
- **CD, TAPE, DVD, VCR, TV** 75 dB (IHF, A : 85 dB)

Tone controls
- **BASS** 50 Hz, +10 to -10 dB
- **TREBLE** 20 kHz, +10 to -10 dB

Output voltage
- **TAPE REC (OUT), VCR OUT** 200 mV

Channel balance (250 Hz - 6.3 kHz) ± 1 dB

Channel separation 55 dB

Headphones output level and impedance 430 mV / 300 Ω

Sub-Woofer frequency response 7 -100 Hz, ±3 dB

Digital input
- **Optical** CD, DVD

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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■ FM TUNER SECTION

Frequency range	87.50 — 108.00 MHz
Sensitivity	
S/N 30 dB	1.5 µV / 75 Ω
S/N 26 dB	1.3 µV / 75 Ω
S/N 20 dB	1.2 µV / 75 Ω
IHF usable sensitivity (IHF'58)	1.5 µV / 75 Ω
IHF 46 dB stereo quieting sensitivity	22 µV / 75 Ω
Total harmonic distortion	
MONO	0.2%
STEREO	0.3%
S/N	
MONO	60 dB (73 dB, IHF)
STEREO	58 dB (67 dB, IHF)
Frequency response 20 Hz - 15 kHz	+1dB, –2dB
Alternate channel selectivity ± 400 dB	65 dB
Capture ratio	1.5 dB
Image rejection at 98 MHz	40 dB
IF rejection at 98 MHz	70 dB
Spurious response rejection at 98 MHz	70 dB
AM suppression	50 dB
Stereo separation	
1 kHz	40 dB
Carrier leak	
19 kHz	-30 dB (-35 dB, IHF)
38 kHz	-50 dB (-55 dB, IHF)
Channel balance (250 Hz - 6.3 kHz)	± 1.5 dB
Limiting point	1.2 µV
Bandwidth	
IF amplifier	180 kHz
FM demodulator	1000 kHz
Antenna terminal	75 Ω (unbalanced)

■ AM TUNER SECTION

Frequency range	522 — 1611 kHz (9 kHz steps) 530 — 1620 kHz (10 kHz steps)
Sensitivty	20 µV, 330 µV/m
Selectivity (at 999 kHz)	55 dB
IF rejection (at 999 kHz)	50 dB

■ VIDEO SECTION

Output voltage at 1 V input	**(unbalanced)**	1±0.1 Vp-p
Maximum input voltage		1.5 Vp-p
Input/output impedance		75 Ω (unbalanced)

■ GENERAL

Power consumption	240 W (In standby condition : 2 W)
Power supply	AC 230 - 240 V, 50 Hz
Dimensions (W x H x D)	430 x 158 x 324.5 mm
Weight	9.6 kg

Notes :

1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

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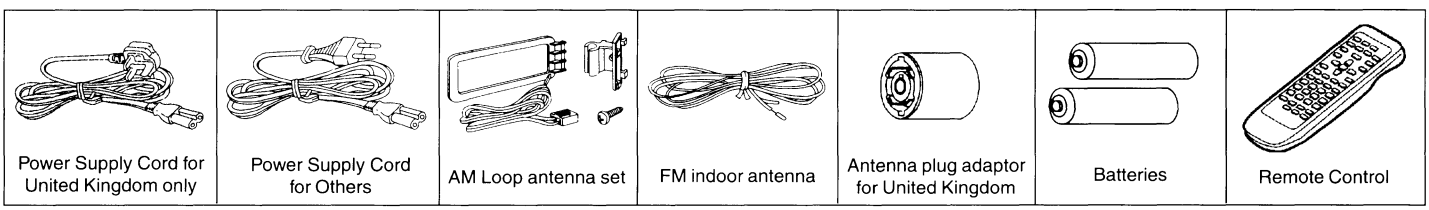
■ Accessories



Power Supply Cord for United Kingdom only	Power Supply Cord for Others	AM Loop antenna set	FM indoor antenna	Antenna plug adaptor for United Kingdom	Batteries	Remote Control

■ Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C703, C704, C705 and C706 through a 10Ω , 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at AC 230-240 V, 50Hz in NO SIGNAL mode should be 300 ~ 400 mA.

■ Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed :

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

■ Caution for AC Mains Lead

(For "EB" area code model only.)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION !
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Blue:	Neutral
Brown:	Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use
Remove the connector cover.

How to replace the fuse
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

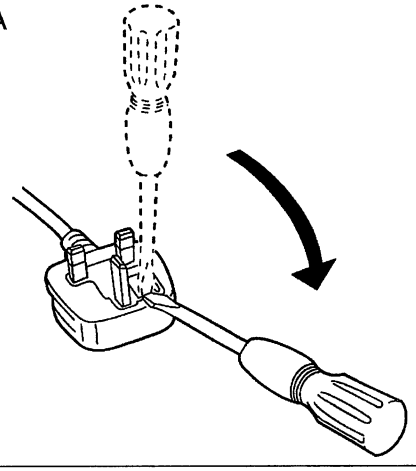
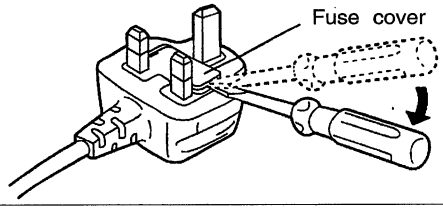


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

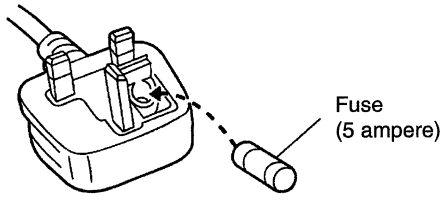
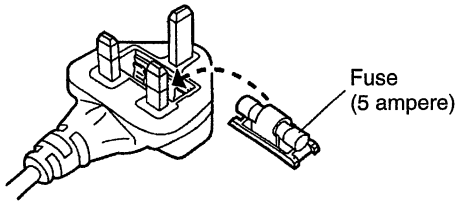
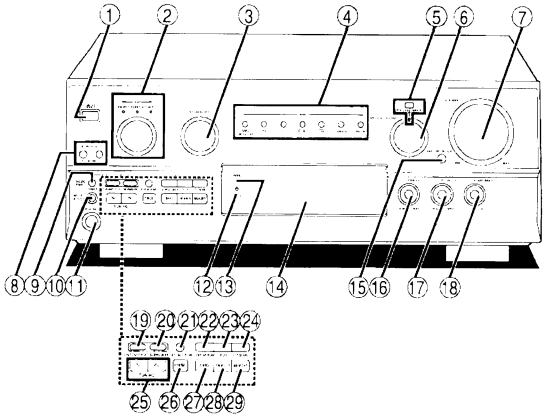


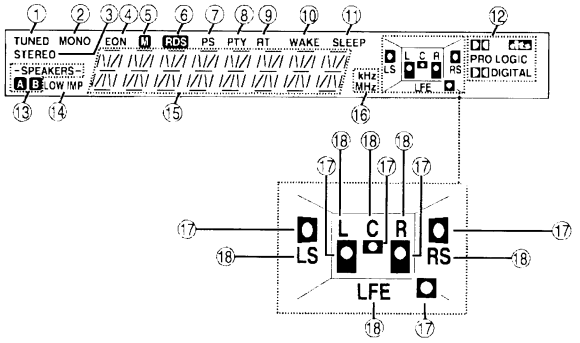
Figure B





Main unit

No.	Name
①	Standby/on switch (⏻ /I)
	Press to switch the unit from on to standby mode or vice versa.
	In standby mode, the unit is still consuming a small amount of power.
②	DSP mode selector (DSP)
③	PTY selector (PTY SELECTOR)
④	Input indicator
⑤	Digital input select button/indicator (DIGITAL INPUT)
⑥	Input selector (INPUT SELECTOR)
⑦	Volume control (VOLUME)
⑧	Speaker select buttons (A SPEAKERS B)
⑨	Timer button (TIMER, -MODE, –TIME)
⑩	Help/reset button (-HELP, –RESET)
⑪	Headphones jack (PHONES)
⑫	Standby indicator (⏻)
	When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
⑬	Wake indicator (WAKE)
⑭	Display section
⑮	Tape monitor button (TAPE MONITOR)
⑯	Bass control (BASS)
⑰	Treble control (TREBLE)
⑱	Balance control (BALANCE)
⑲	Digital signal processor on/defeat button (–DSP ON/DEFEAT)
⑳	Subwoofer button (SUBWOOFER)
㉑	DVD 6CH INPUT select button (DVD 6CH INPUT)
㉒	RDS display mode select button (DISPLAY MODE)
㉓	EON button (EON)
㉔	PTY search button (PTY SEARCH)
㉕	Tuning buttons (TUNING ∨ , ∧)
㉖	Preset channel button (PRESET)
㉗	Band select button (BAND)
㉘	FM mode select button (FM MODE)
㉙	Memory button (MEMORY)



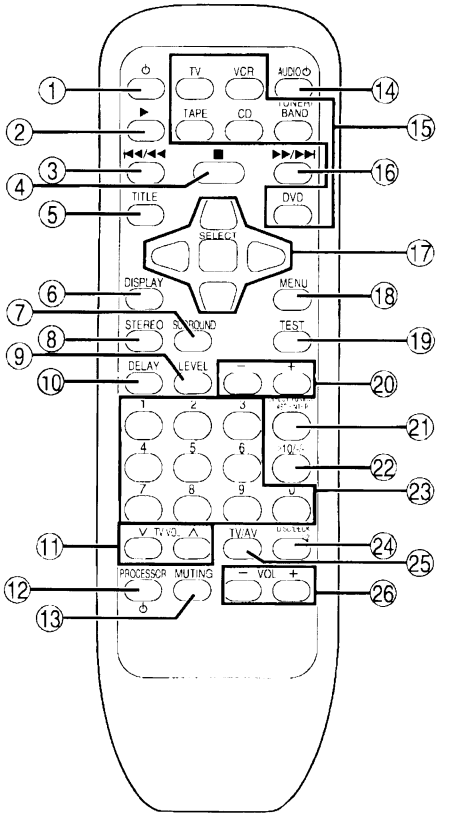
Display section

No.	Name
①	Tuned indicator (TUNED)
②	Monaural indicator (MONO)
③	Stereo indicator (STEREO)
④	EON indicator (EON)
⑤	Memory indicator (M)
⑥	RDS indicator (RDS)
⑦	PS indicator (PS)
⑧	PTY indicator (PTY)
⑨	RT indicator (RT)
⑩	Wake indicator (WAKE)
⑪	Sleep indicator (SLEEP)
⑫	Surround format indicators (dts, PRO LOGIC, DIGITAL)
⑬	Front speaker indicator (-SPEAKERS- A B)
⑭	Low impedance indicator (LOW IMP)
⑮	Display
⑯	Frequency unit indicator (kHz, MHz)
⑰	Speaker indicators
⑱	Signal format indicators (L, C, R, LS, RS, LFE)

These indicators light up to indicate each input signal format.
L: Front channel (left)
C: Center channel
R: Front channel (right)
LS: Surround channel (left)
RS: Surround channel (right)

"LFE" (Low Frequency Effect) is a channel for the deep bass effect in the low frequency range.

⑯	▶▶/▶▶| button (▶▶ / ▶▶|)
⑰	Cursor/select buttons
⑱	Menu button (MENU)
⑲	Test button (TEST)
⑳	Delay time/level adjust buttons (–, +)
㉑	Direct tuning/disc enter button (DIRECT TUNING/DISC ENTER)
㉒	≥10/-/-- button (≥10/-/--)
㉓	Numeric buttons
㉔	Disc/deck 1/2 select button (DISC/DECK 1/2)
㉕	TV/AV select button (TV/AV)
㉖	Volume buttons (–VOL+)

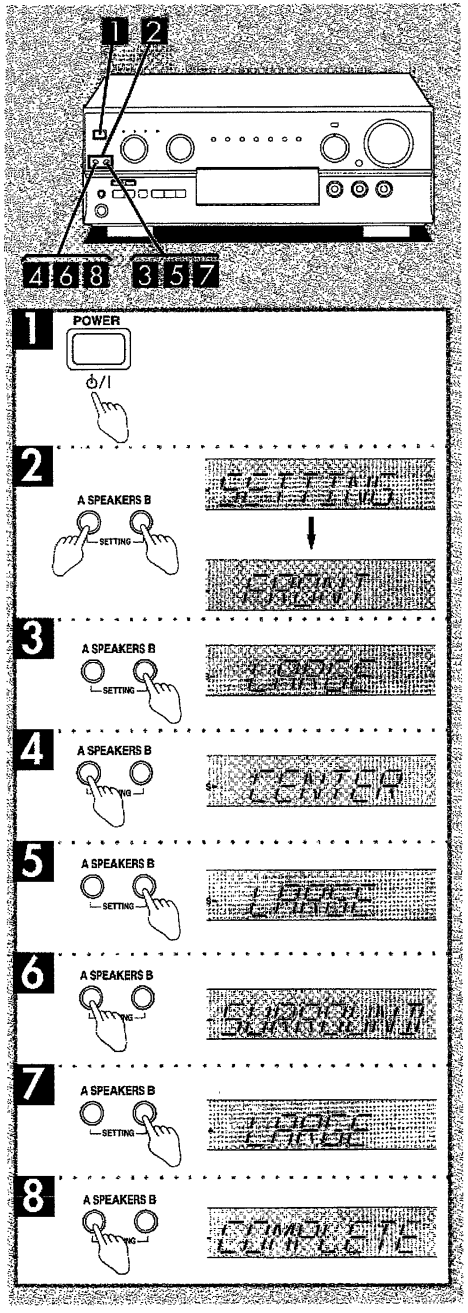


Remote control

The pages referred to on this page are in the booklet "How to use the remote control transmitter." The page numbers in boxes (eg. 32) refer to pages in this manual.

No.	Name
①	Standby/on button (⏻)
②	▶ button (▶)
③	◀◀/◀◀ button (◀◀/◀◀)
④	■ button (■)
⑤	Title button (TITLE)
⑥	Display button (DISPLAY)
⑦	Surround mode select button (SURROUND)
⑧	Stereo mode select button (STEREO)
⑨	Speaker channel select button (LEVEL)
⑩	Delay time button (DELAY)
⑪	TV volume buttons (∨ TV VOL ∧)
⑫	Processor standby/on button (PROCESSOR ⏻)
⑬	Muting button (MUTING)
⑭	Audio standby button (AUDIO ⏻)
⑮	Input select buttons (TV, VCR, TAPE, CD, TUNER/BAND, DVD)

Preparatory Steps



Speaker settings

These settings should be done to get the most from the unit's reproduction modes.

Front, center, and surround channel settings

Set the type (LARGE or SMALL) and presence of your speakers. Select "LARGE" if the speakers can produce bass (below around 100 Hz). Select "SMALL" if the speakers cannot produce bass. If you aren't using center or surround speakers select "NONE" so the sound is produced through the front speakers.

Before proceeding:
The speaker channels are all set to "LARGE" before shipping. If all your speakers are LARGE, you may skip this operation.

1 Press [POWER].

2 Press [A] and [B] at the same time.
"SETTING" appears on the display and then changes to "FRONT."

3 Press [B] to set the type of front speakers, "LARGE" or "SMALL."
Each time the button is pressed the display switches as follows.
LARGE → SMALL

4 Press [A] to select "CENTER."

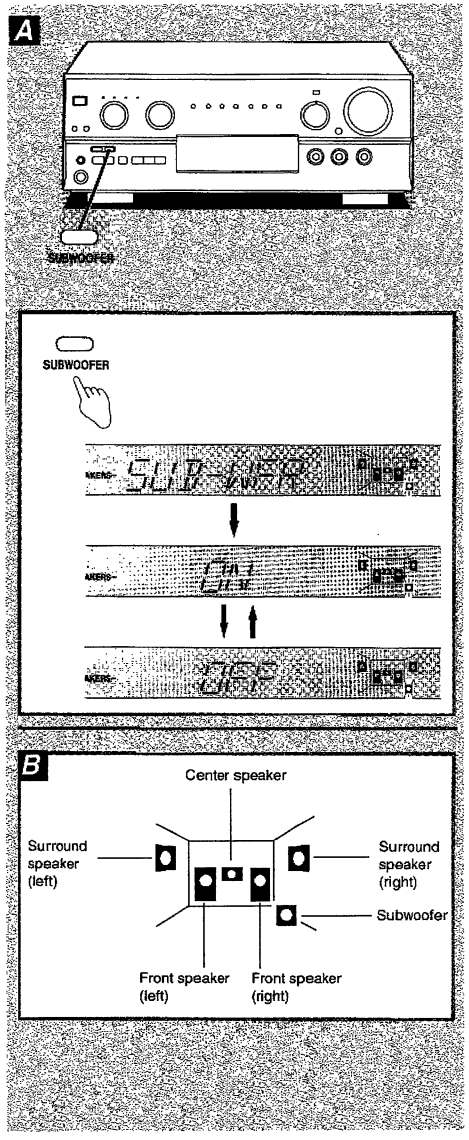
5 Press [B] to select the type or presence of the center speaker.
Each time the button is pressed the display switches as follows.
LARGE → SMALL → NONE
Select "NONE" if a center speaker isn't connected.

6 Press [A] to select "SURROUND."

7 Press [B] to select the type or presence of the surround speakers.
Each time the button is pressed the display switches as follows.
LARGE → SMALL → NONE
Select "NONE" if surround speakers aren't connected.

8 Press [A] to select "COMPLETE."
The settings are now entered into the unit's memory. The previous display reappears after about 3 seconds.
If you have made a mistake in the settings, start again from step 2.

If you allow about 10 seconds to elapse between settings, the procedure is cancelled, all settings are returned to how they were, and the previous display is restored. Begin again if this occurs.



Subwoofer channel setting A

Press [SUBWOOFER] to select "ON" or "OFF".
"SUB-WFR" appears on the display and the current setting, "ON" or "OFF," is shown. Press again to switch between "ON" and "OFF."
ON: select if you are using a subwoofer.
OFF: select if you are not using a subwoofer.

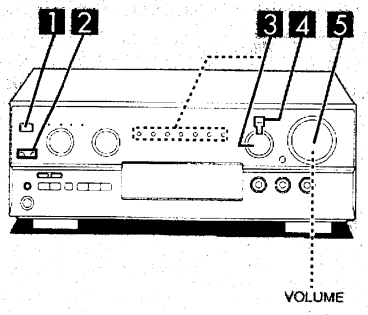
Select "OFF" also when you don't want sound to come from the subwoofer because you are listening to stereo sources.

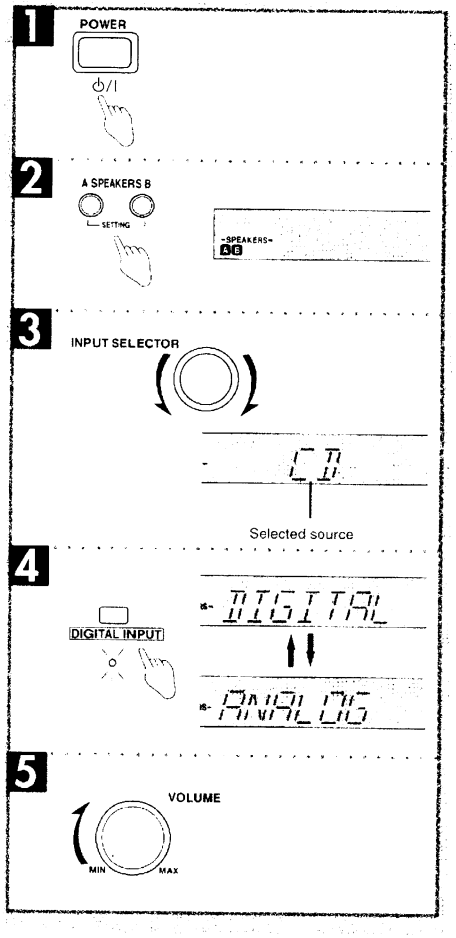
For your reference:
The settings remain as they are until changed by the above procedure, even after the power has been turned off.

The speaker indicators B

This part of the display indicates which speakers sound is coming from.
If "NONE" or "OFF" is selected during the speaker settings procedure, the corresponding indicators do not light.
The surround and center speaker indicators do not light when STEREO mode is selected.

Basic Operations





Before operation, set VOLUME to the "MIN" position.

1 Press [POWER].

2 Press [A] and/or [B] to select the speaker system(s) to be used.
A and B refer to the speaker terminals at the rear of the unit.

If the button is pressed once more, the indicator will switch off and no sound will be heard from the speakers.

3 Turn [INPUT SELECTOR] to select and start the desired source.
(Refer to the appropriate operating instructions for details.)

The indicator corresponding to the selected source lights and the source is shown on the display.

TAPE (MONITOR): To listen to cassette tapes
VCR: To watch video tapes
TV/DSS: To watch TV or DSS
DVD: To watch DVD
CD: To listen to compact discs
TUNER: To listen to radio broadcasts
PHONO: To listen to phono discs

Note
To watch a video (or DVD) or the TV, set the TV to either the TV mode or VIDEO mode.

4 (only if you select TV/DSS, CD or DVD in the above step)
Press [DIGITAL INPUT] to select "DIGITAL" or "ANALOG".
Switches between "DIGITAL" and "ANALOG" each time the button is pressed.

The "DIGITAL INPUT" indicator lights when DIGITAL selected.

5 Adjust the volume level.

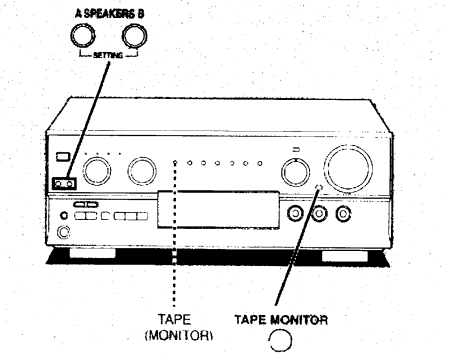
For your reference

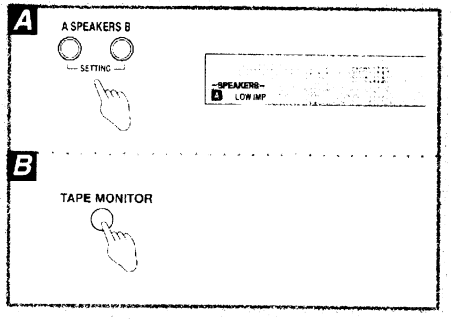
- **If the SURROUND, DTS or SFC mode has been selected**
  After displaying the selected source, the display will then change to show the SURROUND, DTS or SFC mode.

  If the source chosen was TUNER then the display will change again to show the frequency.

- **If you are using VCR and you select TAPE, CD, TUNER, or PHONO**
  The picture will remain on the screen.

When you finish listening
Be sure to reduce the volume level, and switch the power to the standby condition by pressing [POWER].





For front speakers with an impedance under 8 Ω A

Press and hold [A] or [B] until "LOW IMP" lights up on the display.

If even one of the speakers being used has an impedance under 8 Ω, press and hold down either [A] or [B] for 4 seconds or more to set the impedance on the main unit to LOW.

(Press and hold down once again for 4 seconds or more to turn it off.)

Note that when "LOW IMP" is illuminated, speakers A and B cannot both be used at the same time.

To change a speaker:
e.g. To use speaker B, press [A] ("A" goes out), and then press [B] to activate speaker B.

The TAPE (MONITOR) indicator

This indicator lights in the following two situations:
1. While TAPE is selected.
2. While TAPE MONITOR is in use.

To use the tape monitor B
If [TAPE MONITOR] is pressed while a source other than TAPE is selected, the "TAPE (MONITOR)" indicator lights and the tape monitor comes on.

Sources other than tape can still be selected with [INPUT SELECTOR] while the "TAPE (MONITOR)" indicator is on.

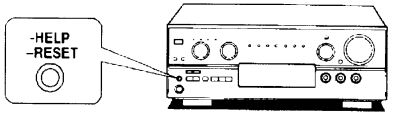
Press [TAPE MONITOR] again to turn the tape monitor off.

(➡ See "Making a recording" for details on how to use the tape monitor during recording.)

Note

- The tape monitor cannot be used when TV/DSS, DVD, or CD digital input is being used.
- If you are using the tape monitor and you select a digital input source, the tape monitor switches off.

About the HELP function



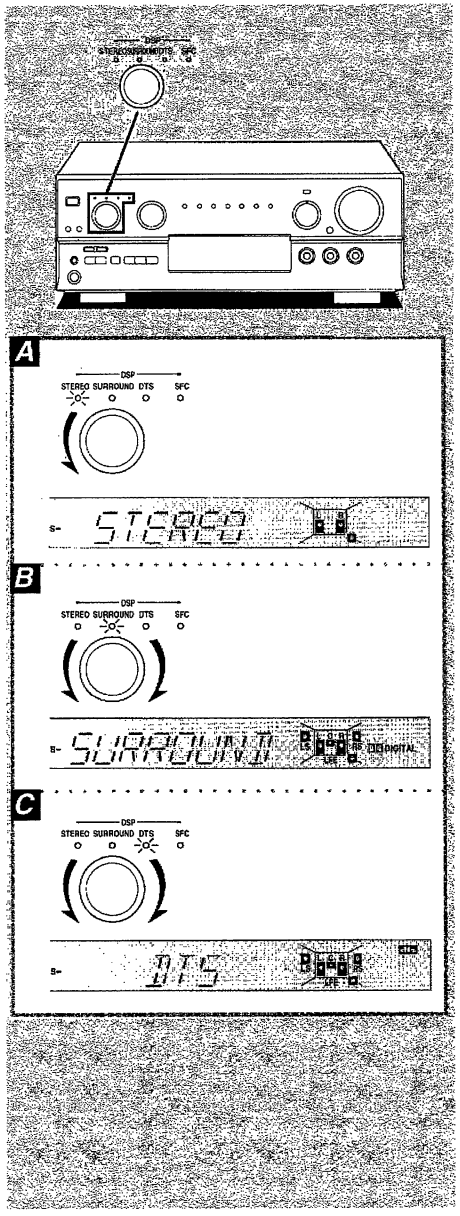
If you make a mistake in operation or if sound output stops due to some operation which was performed, the HELP function displays information which can be useful for indicating the method by which this condition can be remedied.
If "ERROR" or scrolling characters (for instance, "SPEAKER OFF NOW") appear on the display during operation, carry out the following operation.

Press [-HELP, –RESET].

The method for remedying this situation will be displayed.

For your reference
If the above button is pressed for 2 seconds or more until "RESET" appears on the display, the operation settings for the unit will be initialized to the settings made at the time of shipment. However, any broadcasting stations which have been preset into memory will not be erased at this time.

■ Digital Signal Processor and Other Sound Modes



You can take advantage of the following modes with this unit.

STEREO mode A

Use this mode when you want to listen to stereo sources, whether they are digital or analog, or when you want to playback Dolby Digital or DTS sources through two channels. The sounds usually fed through the other speakers are down-mixed so they are output through the left and right front speakers. There may be some change in the overall sound when surround sources are down-mixed.

SURROUND mode B

By selecting this mode while digital input is being used, the unit automatically determines the kind of digital source being used (Dolby Digital, Dolby Surround, or DTS), and processes it accordingly. Select this mode also when you are playing back an analog source, VCR for example, that has been recorded in Dolby Surround.

Software with the following mark can be played back in this mode.

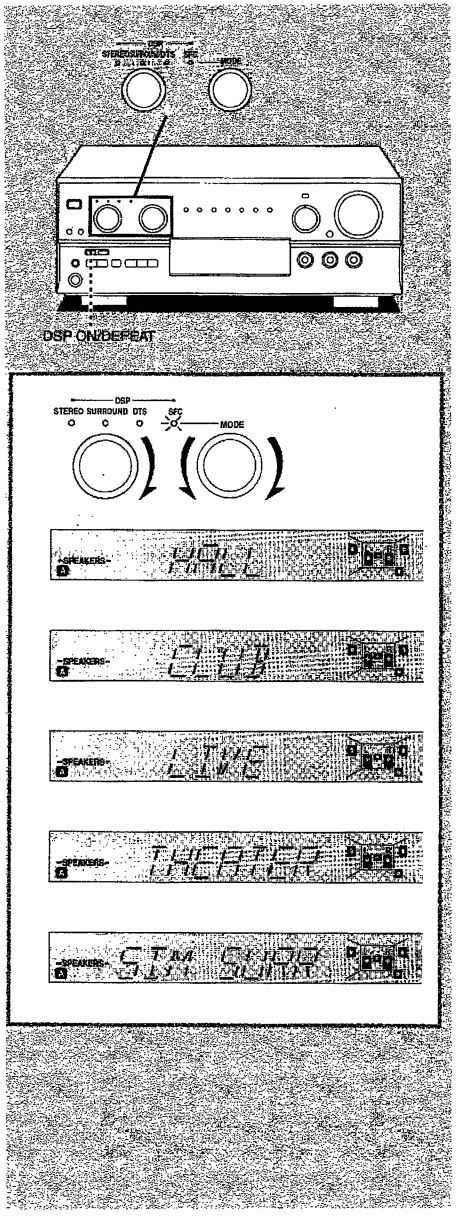
DOLBY DIGITAL　DOLBY SURROUND　DIGITAL dts SURROUND

DTS mode C

Select this mode if the DTS source you are playing back is not recognized by the SURROUND mode.

Software with the following mark can be played back in this mode.

DIGITAL dts SURROUND



SFC mode

The SFC (Sound Field Control) function gives presence and spread thereby enhancing and enriching the music or movie.
Read the following explanations better understand how to make your selection.

Note
SFC is designed to add surround-like effects to stereo sources. Select the appropriate mode when playing back Dolby Digital, DTS, or Dolby Surround sources.

HALL
This mode imparts a reflection and spread which will make you feel as if you are in a large concert hall.

CLUB
Like a jazz club, this mode provides an exciting and intimate atmosphere. It simulates the sound field of a relatively small room having a low ceiling and hard reflective surfaces, for a "live" sound with enhanced presence to bring the performers up close.

LIVE
Primarily for vocal pieces, this mode adds gloss to the vocals and you'll feel as though you were hearing a live stage performance.

THEATER
You can clearly perceive the directions and source of the movie. Real ambience of sound can also be recreated naturally using this mode.

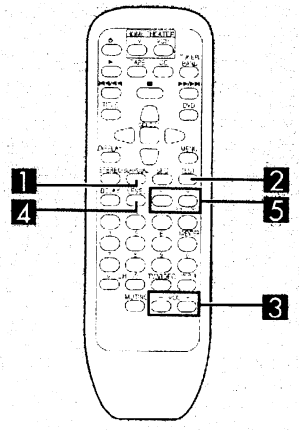
SIMULATED (SIM SURR)
Choose this mode if little or no sound will be heard from the surround speakers.
You can feel as if you were in a more expanded space adding to the actual sound from the source.
This mode also adds effect to monaural sources by outputting sound from surround speakers.

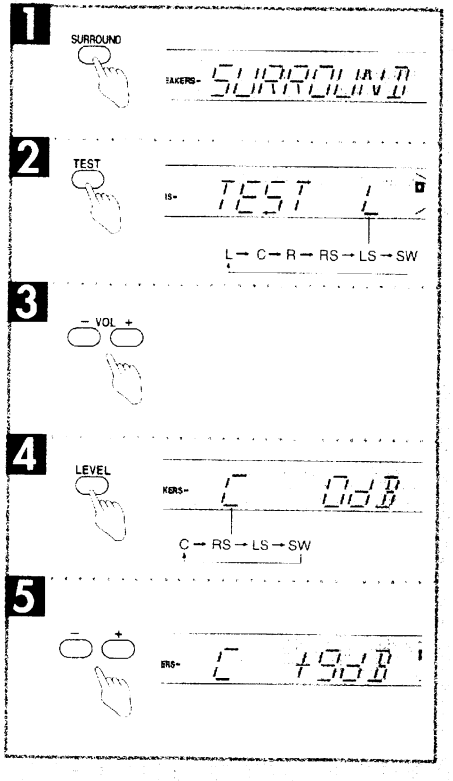
If reception is weak or "TUNED" fails to light completely while playing the radio

Press and hold [–DSP ON/DEFEAT] until "DEFEAT" appears on the display.
Press and hold again to turn DSP on. The STEREO mode is selected.

This allows you to play back sound without it passing through the digital signal processor (DSP). When this is selected, no sound will go through the center or surround speakers or the subwoofer.

Note
When "DEFEAT" is selected the sound mode indicators (STEREO, SURROUND, DTS and SFC) go out and these modes can not be selected.





Preparing for surround sound

Do these steps to get the most from your home theater system.

Adjusting speaker output level

by remote control

Adjust speaker level so the output from all the speakers is the same apparent level when sitting where you would normally enjoy a source.

Preparation
- Turn ON the speakers with [SPEAKERS A].
- Adjust front speaker balance with [BALANCE].

1 Press [SURROUND] to select "SURROUND".
"SURROUND" appears on the display.

Note
This procedure must be done in the SURROUND mode.

2 Press [TEST] to output the test signal.
"TEST" appears on the display.
The signal is output from each speaker in order for about two seconds each:

L: Front speaker (left)
C: Center speaker
R: Front speaker (right)
RS: Surround speaker (right)
LS: Surround speaker (left)
SW: Subwoofer

Speakers set as "NONE" or "OFF" are skipped.

3 Press [VOL (– or +)] to set the volume level normally used for enjoying the source.

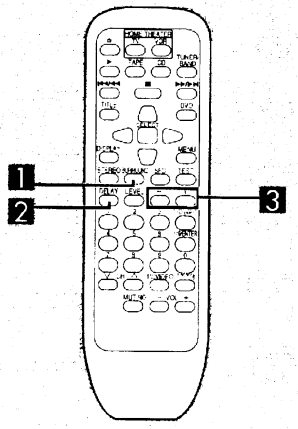
4 Press [LEVEL] to select the speaker channel to adjust.
The current level appears on the display.
Press again to change the speaker channel.

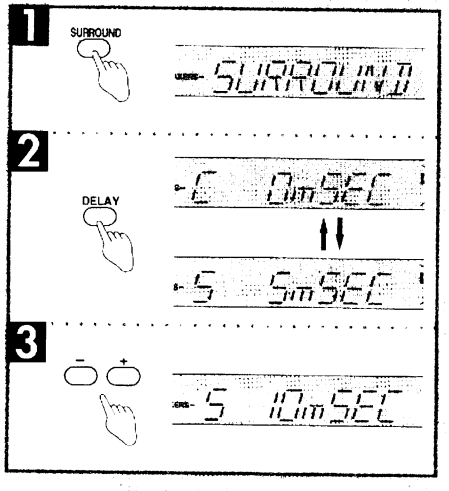
Speakers set as "NONE" or "OFF" are skipped.

5 Press [–] or [+] to adjust the level to the same apparent level as the front speakers.
The four channels can be adjusted between –10 dB and +10 dB, with zero being the current level of the front speakers.

6 Repeat 4 and 5 for each speaker channel.

To stop the test signal
Press [TEST].





Adjusting the delay time

by remote control only

By adjusting the delay time, the difference in the distance from the viewing and listening position to the front speakers and the distance to the center speaker and surround speakers can be offset and made equal. This achieves better sound localization and makes a more life-like reproduction of the sound field possible.

Preparation
Prepare the unit in this manner even if you intend to playback analog sources.
- Select "DVD" with [INPUT SELECTOR] but ensure the source itself is off.
- Press [DIGITAL INPUT] to select "DIGITAL".

Note
Please note that following occurs if delay time is adjusted while playing back a source or analog input is selected:
- Adjustment is not possible if the source is DTS format.
- While the DD PRO LOGIC indicator is alight, the center channel cannot be adjusted and 15 ms are added to the delay times listed for surround channel.

1 Press [SURROUND] to select "SURROUND".
"SURROUND" appears on the display.

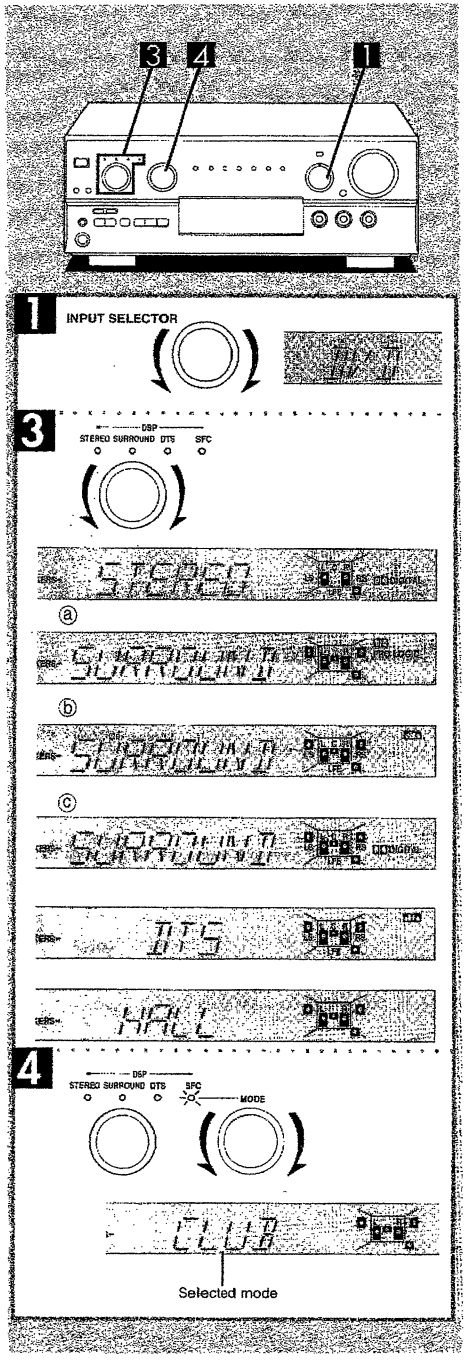
2 Press [DELAY] to select the channel to be adjusted.
The current delay time is displayed.
Press again to change the speaker channel;
C (Center speaker) ⇄ S (Surround speakers)

Speakers set as "NONE" are skipped.

3 Press [–] or [+] to set the delay time.
The delay time changes with each press.
The increments depend on the channel being adjusted.

Speaker	Available delay time setting (ms)
Center	0, 1, 2, 3, 4, 5
Surround	0, 5, 10, 15

The display is restored if a button isn't pressed for 4 or more seconds.



Enjoying sound modes

1 Turn [INPUT SELECTOR] to select the desired source.

2 Start the desired source.

3 Turn the sound mode selector to select the desired mode.

The selected reproduction mode appears on the display.

STEREO: STEREO
SURROUND: SURROUND
One of the following indicators lights to indicate the source.
ⓐ DD PRO LOGIC: Lights if the source is Dolby Surround format.
ⓑ dts: Lights if the source is DTS format.
ⓒ DD DIGITAL: Lights if the source is Dolby Digital Format.
DTS: DTS
SFC: HALL, CLUB, LIVE, THEATER or SIM SURR

Note

Select the mode to suit the source's format. Dolby Digital and DTS, for example, cannot be played back in an SFC mode. If either dts or DD DIGITAL appear while using SFC, use SURROUND instead.

4 (only if you select SFC in the above step)
Turn [MODE] to select the desired SFC mode.

For your reference

You can set the sound mode for each source. Each source will retain the selected mode.

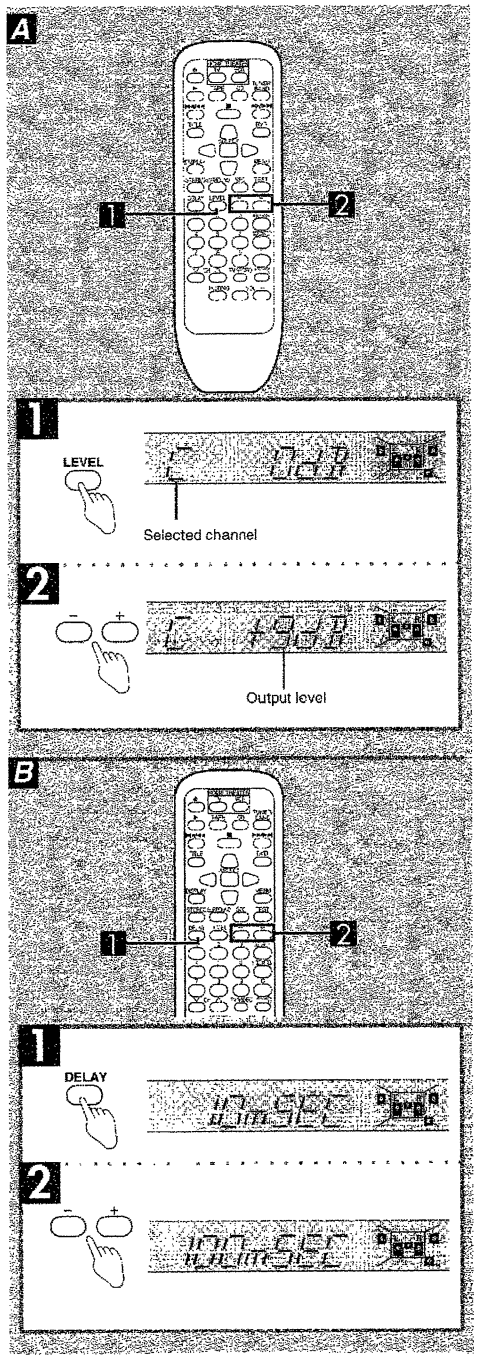
Note

Ensure the front speakers are connected to the A terminals when you use SURROUND, DTS and SFC modes. The SURROUND, DTS and SFC modes cannot be turned on if "SPEAKERS B" is selected.

Only Dolby Digital, DTS or PCM signals ※ can be reproduced through the digital terminal:

- The digital input signal of sampling frequencies 96 kHz and other signal formats such as MPEG cannot be reproduced on this unit.
- When playback is started, the sound may be cut or interrupted before the input source is confirmed as Dolby Digital or DTS.

※ PCM signal: This refers to the recording format of signals (44.1 kHz, linear 16 bits) used for audio CDs.



Adjusting field of sound in the SFC mode

by remote control only

With this unit, you can adjust speaker volume. Adjust the field of sound while listening to a source.

To adjust the volume of each speakers A

1 Press [LEVEL] to select the speaker channel to adjust.

The output level appears on the display.

Each time the button is subsequently pressed, the speaker whose level is to be set is selected in the listed sequence.

C → RS → LS → SW

Speakers for which "NONE" or "OFF" has been set are skipped.

2 Press [–] or [+] to adjust the output level.

Channels C, RS, LS, and SW can be adjusted between –10 dB and +10 dB.

To adjust the delay time of the surround speakers B

1 Press [DELAY].

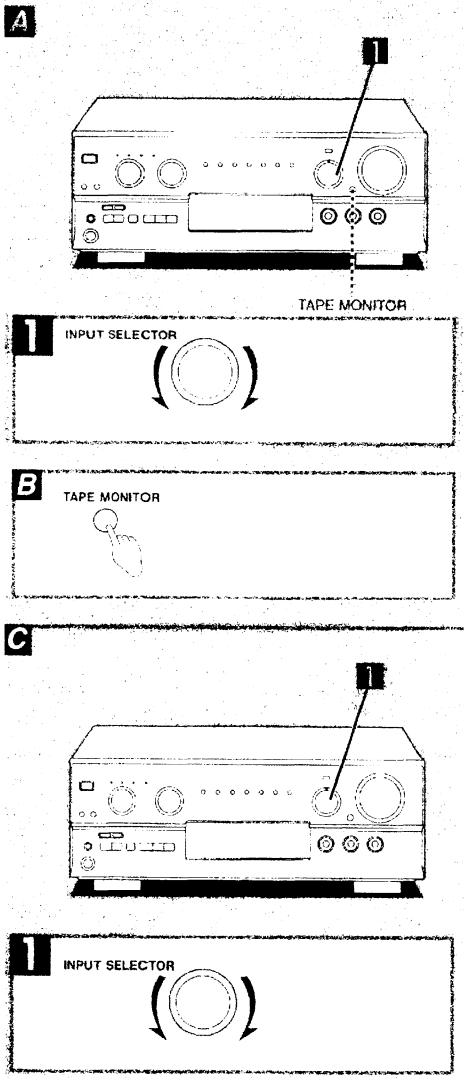
2 Press [–] or [+] to adjust the delay time.

Select a delay time to suit your individual needs.
Delay time can be set at 10 milliseconds (ms) intervals between 10 and 100 ms.
The factory settings for each mode are 50 ms.

For your reference

Settings for volume level and delay time can be done for each SFC mode.

Making a recording & using the remote control



Note
You cannot record a source connected through a digital terminal.

Recording on a tape deck A

Before recording, prepare the tape deck.
See the tape deck's operating instructions for details.

1 Turn [INPUT SELECTOR] to select the source to be recorded.
Any source can be selected except TAPE.

2 Begin recording on the tape deck.
Follow your tape deck's operating instructions.

3 Begin the source to be recorded.
Follow your equipment's operating instructions.

To monitor the recorded sound B

It is possible to check the sound being recorded if your tape deck is a 3 head system.

Press [TAPE MONITOR] on this unit and set the monitor button on the tape deck to "TAPE".

Press [TAPE MONITOR] once again to turn it off.

Recording on a VCR C

Before recording, prepare VCR.
See the VCR's operating instructions for details.

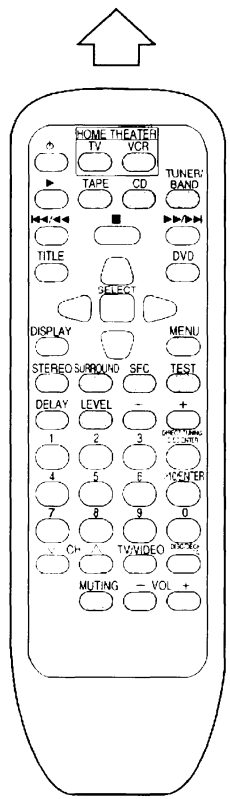
1 Turn [INPUT SELECTOR] to select the source to be recorded.
Any source can be selected except VCR and TAPE.

Note
Recording from the tape deck is not possible.

2 Begin recording on the VCR.
Follow your VCR's operating instructions.

3 Begin the source to be recorded.
Follow your equipment's operating instructions.

Point the remote control toward the receiver



Basic operations

To turn the unit ON/OFF	TUNER/ BAND → ⏻ Once the unit has been set to ON, it can be turned ON and OFF simply by pressing [⏻]. **Note** After turning the TV, VCR or DVD player ON or OFF, always press [TUNER/BAND] before pressing [⏻] when turning the receiver ON and OFF.
To select an input source and switch the remote control to each operation mode	TAPE VCR TV DVD CD TUNER/ BAND **Note** • PHONO can not be selected with this remote control. • TAPE MONITOR cannot be controlled with the [TAPE] button.
To turn on the STEREO mode	STEREO
To turn on the SURROUND mode	SURROUND
To turn SFC on and select the mode	SFC Changes as follows each time the button is pressed. HALL → CLUB → LIVE → THEATER ↑ SIM SURR (SIMULATED) ←
To output a test signal	When the SURROUND mode is on TEST Press once more to stop the test signal.
To select the speaker channel and adjust its output level	When the SURROUND, DTS or SFC modes are on LEVEL → – + **Note** The last channel to be adjusted is remembered so you can adjust it again without having to press [LEVEL].
To select the speaker channel and adjust its delay time	When the SURROUND or SFC modes are on DELAY → – + **Note** The last channel to be adjusted is remembered so you can adjust it again without having to press [DELAY].
To mute the sound level	MUTING The message "MUTING ON NOW" runs repeatedly from right to left across the display as long as the muting function is on. Press once more to return to the original volume.
To adjust the volume level	– VOL +

■ Operation Checks

"ATTENTION SERVICER" Some chassis components may have sharp edges. Be careful when disassembling and servicing.

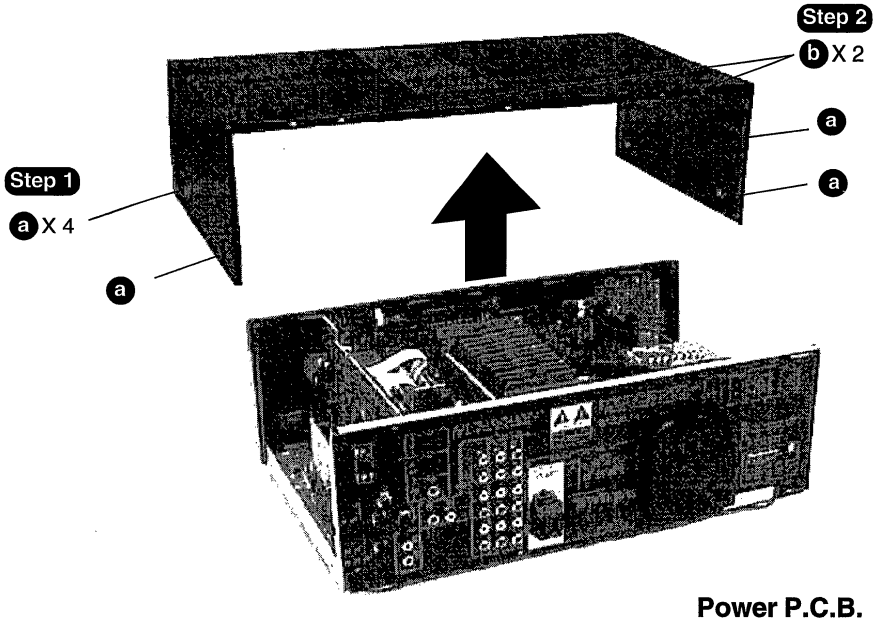
1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.**
3. **Select items from the following index when checks or replacement are required.**

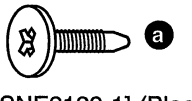
• Contents

page

- **Checking Procedure For Each Major P.C.B.** ..... **11 ~ 13**
- **Main Component Replacement Procedures** ..... **13 ~ 14**

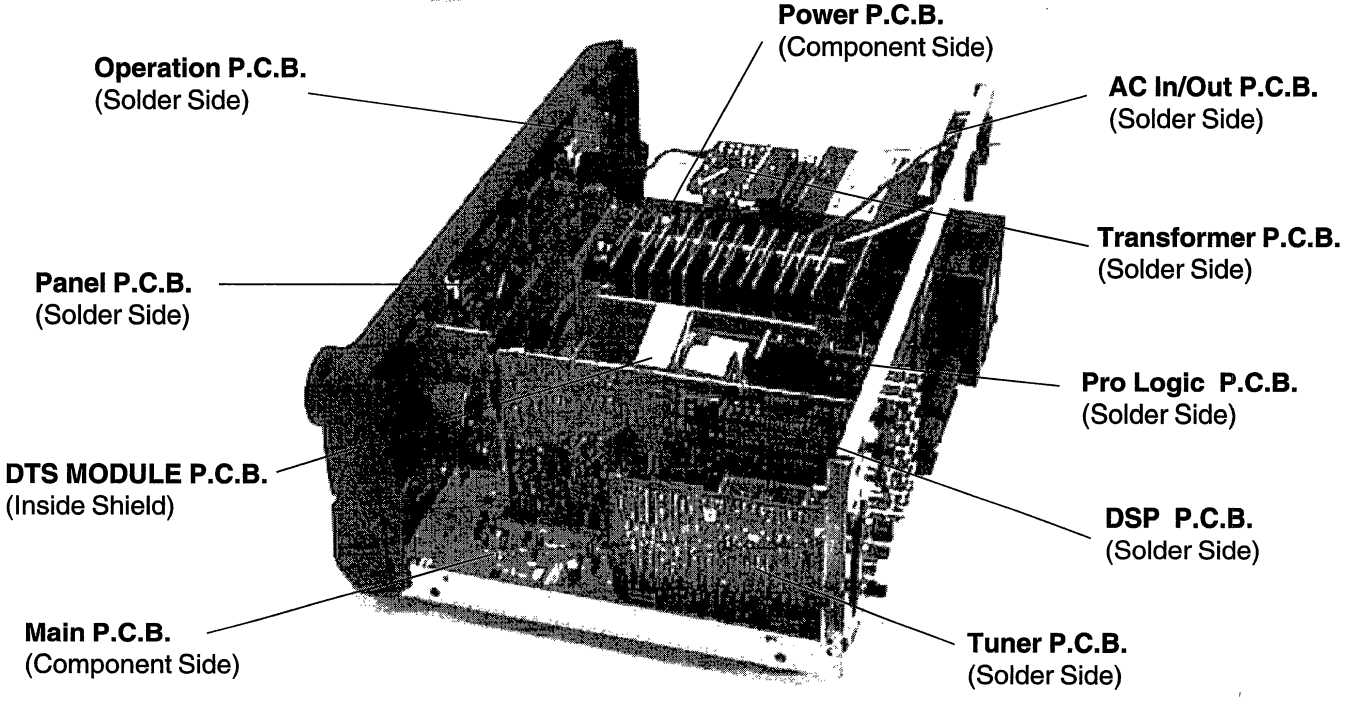
■ Checking Procedure For Each Major P.C.B.





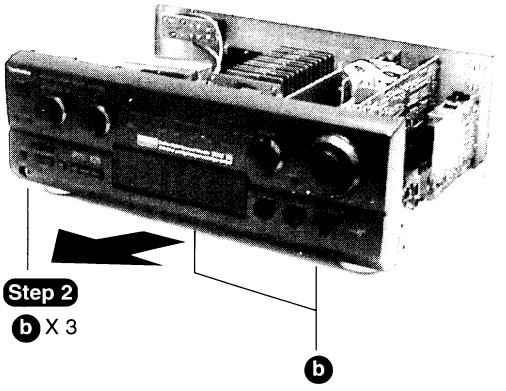
[SNE2129-1] (Black)

[XTBS3+8JFZ1] (Black)



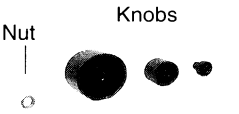
To remove Front Panel and check Panel P.C.B. , Operation P.C.B. and Headphone Jack P.C.B.

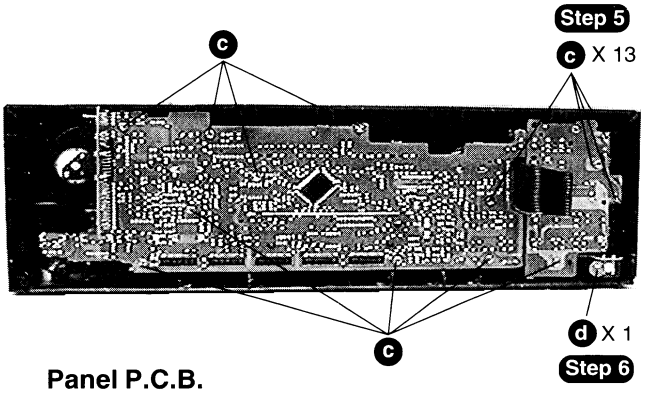
Step 1
Remove the top cabinet.

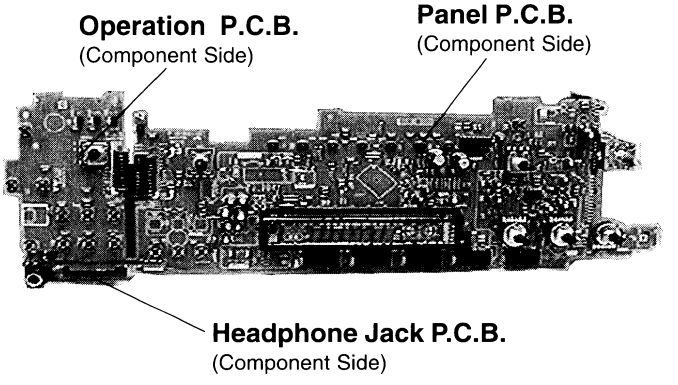


Step 3
Remove the Front Panel in the direction of arrow.

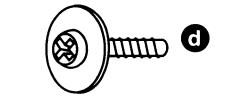
Step 4
Remove all Knobs and Nuts from Front Panel.

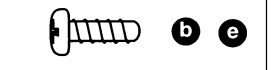


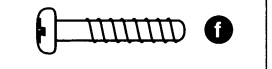




Step 7
Pull out the Headphone Jack P.C.B.





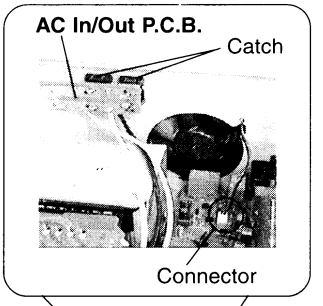


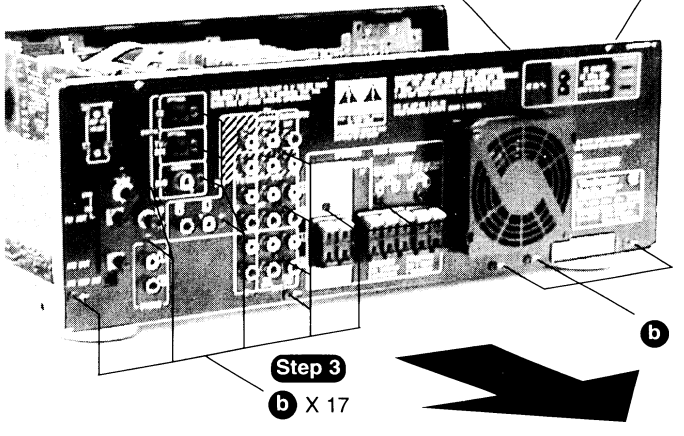
To remove Rear Panel and check Main P.C.B. and Power P.C.B.

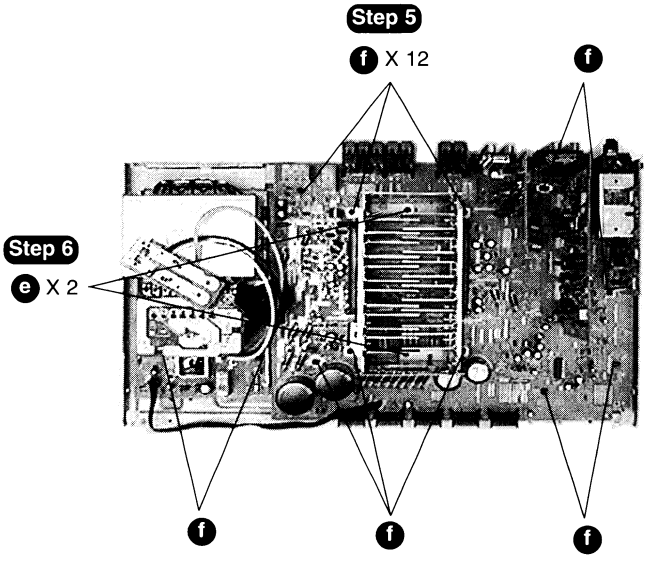
Step 1
Remove the top cabinet.

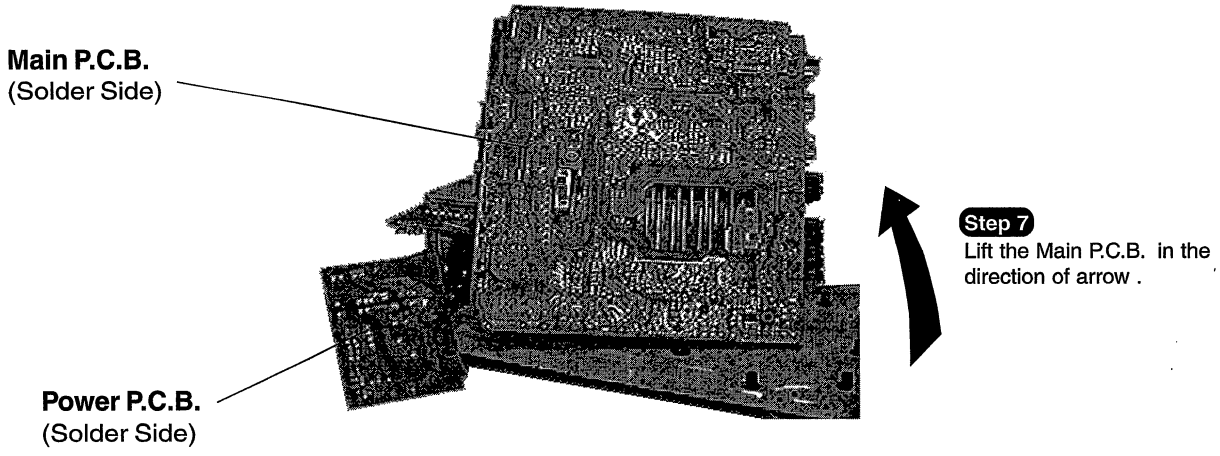
Step 2
Remove the front panel.

Step 4
Release the AC In/Out P.C.B. catches and the fan motor connector, then pull out the rear panel in the direction of arrow.







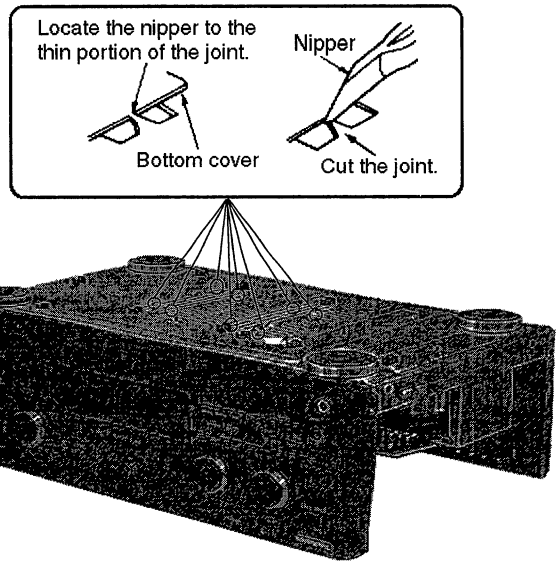


■ Main Component Replacement Procedures

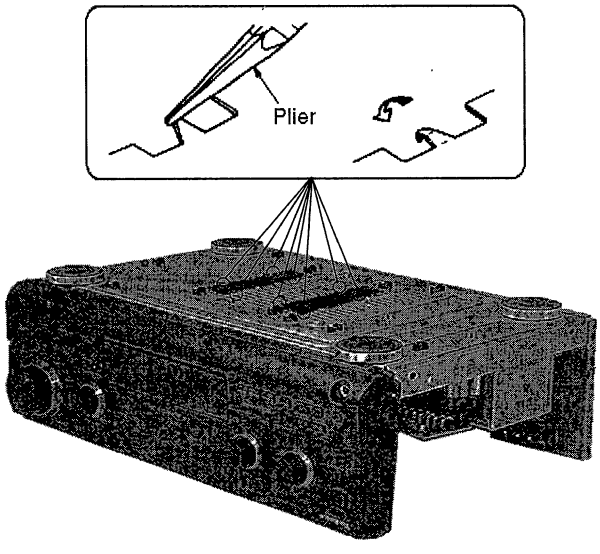
1. Replacement of the Power IC and Regulator Transistor

Step 1
Remove the top cabinet.

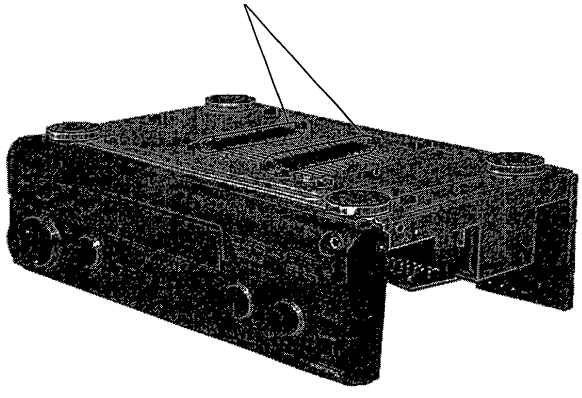
Step 2 Cut the joints as shown below. (8 joints)



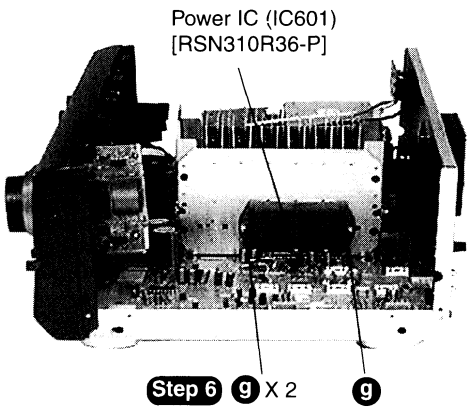
Step 3 Fold the joints. (8 joints)

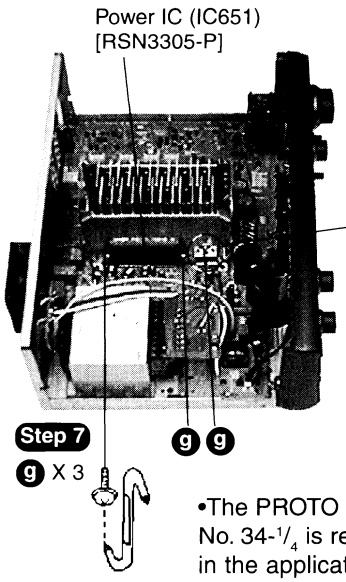


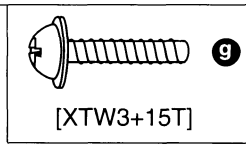
Step 4
Desolder the terminals of Power IC and Regulator Transistor.



Step 5
Remove all screws (ⓑ) for the Tuner, AC-3 and Pro Logic P.C.B.'s at the Rear Panel and pull out these P.C.B.'s from the Main P.C.B.

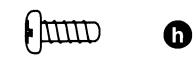




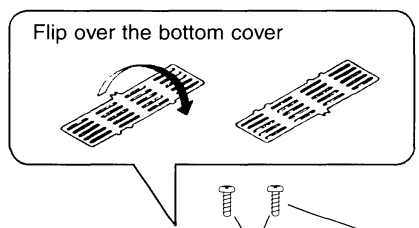


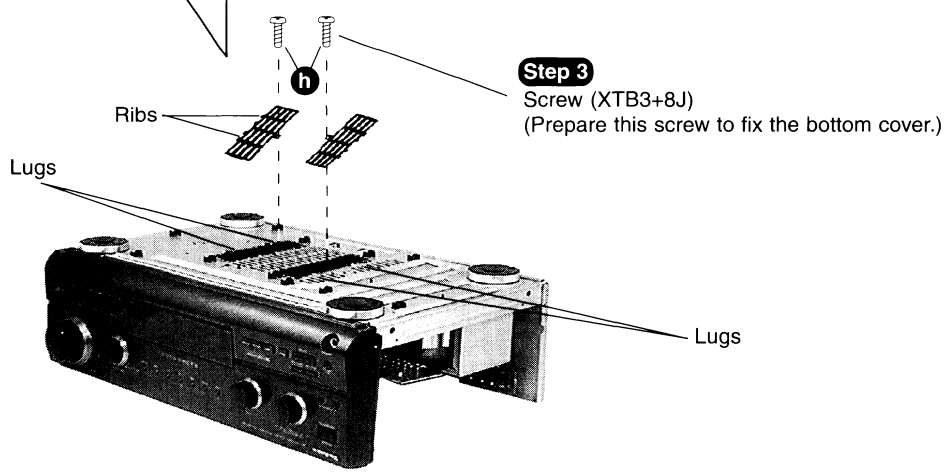
•The PROTO Offset Screwdriver No. 34-$^{1}/_{4}$ is recommended for use in the application above.

Installation of the bottom cover after replacement



Step 1



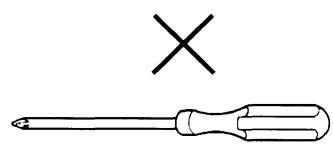


Step 2
Align the ribs of bottom cover into the lugs.

CAUTION

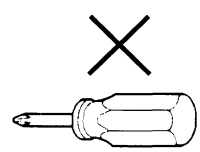
1. After replacing the power IC or regulator transistor, apply a sufficient quantity of compound grease (RFKX0002/SZZ0L15) between the heat sink and the power IC or regulator transistor (Radiation of power IC).
2. Tighten enough the screws (ⓖ)after replacing the power IC and regulator transistor. Otherwise, the heat radiation works little.
3. When installing or removing the power IC or transistor holder, be sure to use an offset screwdriver.

- A long straight screwdriver cannot be used for removing or mounting the screws since its long grip interferes with the neighbouring P.C.B. (See Fig.1)
- A short straight screwdriver may be used for removal, but cannot be used for mounting because the limited space in the unit will not allow sufficient tightening torque.(See Fig.2)



A long straight screwdriver

Fig.1



A short straight screwdriver

Fig.2

- Insufficient tightening will cause poor heat dissipation from the power IC and regulator transistor and,in the worst case, may lead to their thermal breakdown.

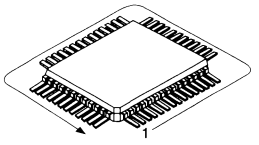
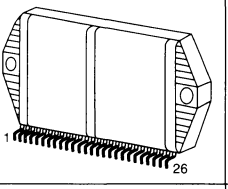
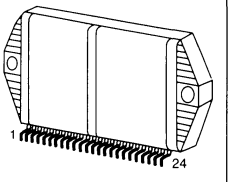
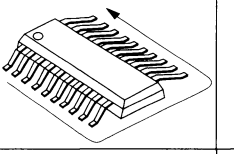
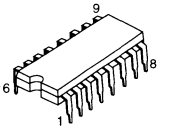
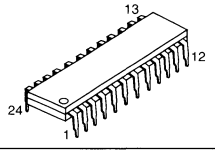
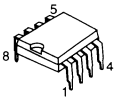
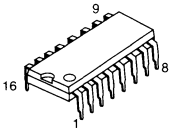
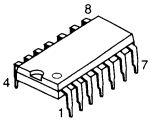
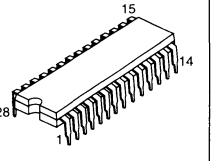
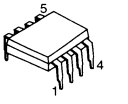
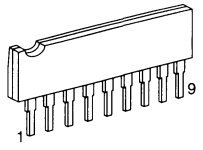
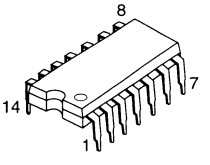
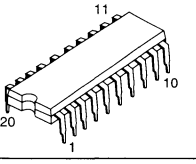
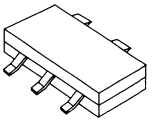
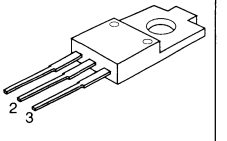
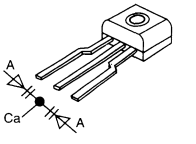
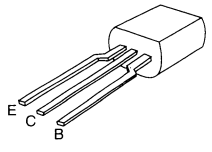
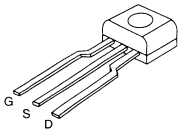
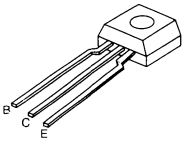
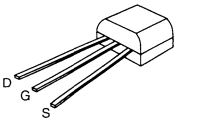
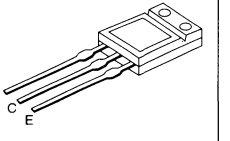
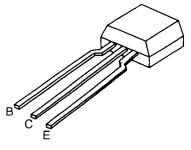
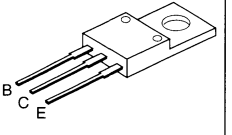
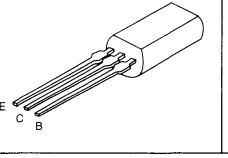
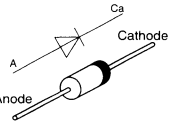
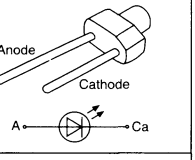
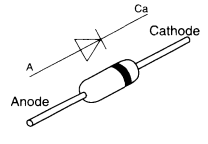
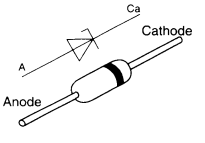
■ Terminal Functions Of ICs

• IC901 (M38B57M6127F) System Microprocessor

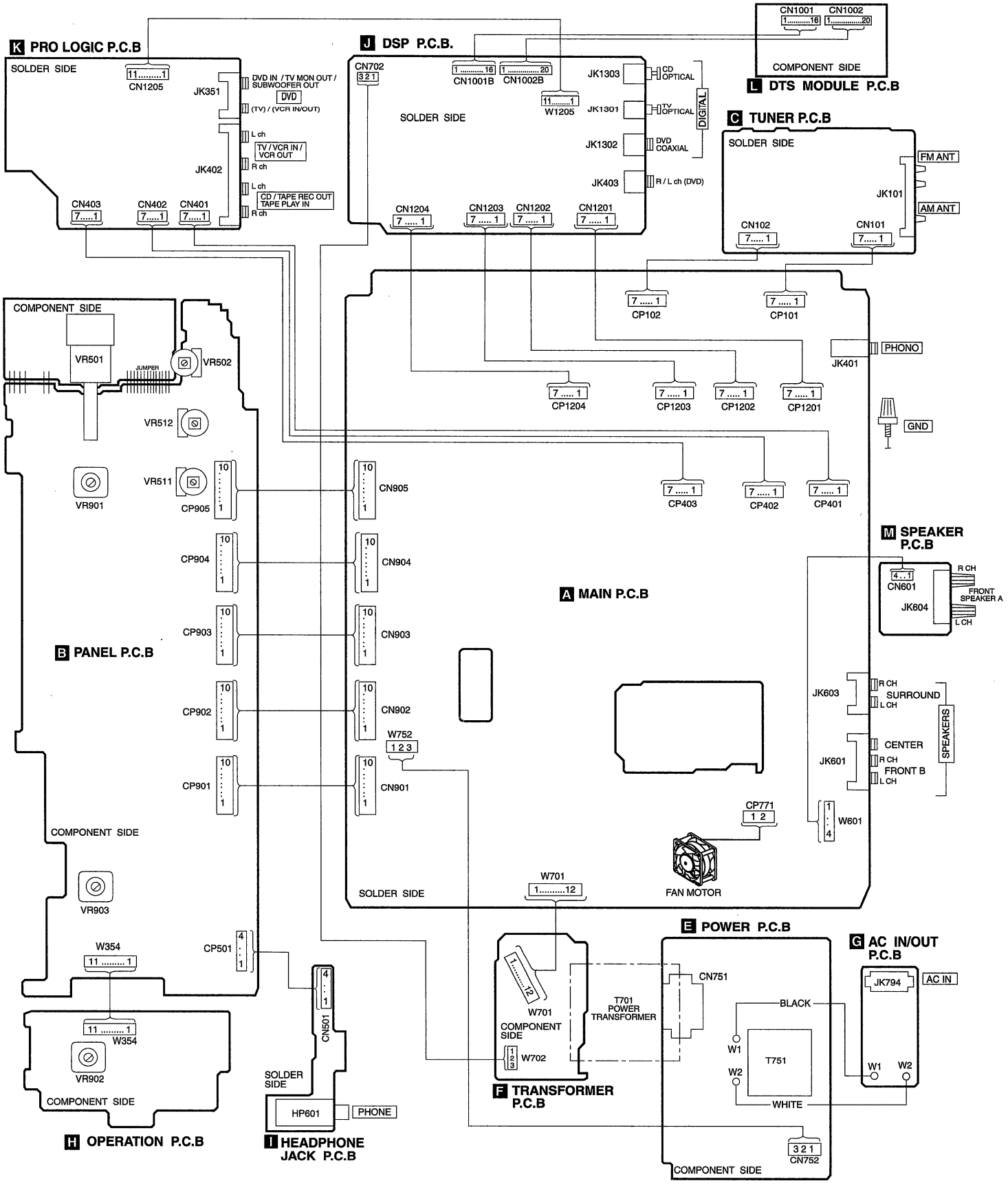
Pin No.	Mark	I/O	Function
1~2	KEY2~KEY1	I	Key Input 1 ~ 2
3	THERM/OVLD	I	Thermal/Over load input
4	KEY4	I	Key Input 4
5	OVERLOAD2	I	Over load input 2
6	FMST	I	Stereo signal detect terminal
7	WAKE	-	Wake up timer LED
8	RDS_DI	-	Control of RDS IC (Not used,open)
9	REMOTE	I	Remote control terminal
10	RESET	I	Reset detect terminal
11	RDS_CK	-	Control of RDS IC (CK) clock signal
12	RDS_DT	-	Control of RDS IC (DT) data signal
13	GND	-	GND terminal
14	XIN	I	Crystal oscillator terminal (4 MHz)
15	XOUT	O	Crystal oscillator terminal (4 MHz)
16	VDD (+5V)	-	Power supply terminal +5V
17	LED_CK	O	LED driver IC (CK) clock signal
18	LED_DATA	O	LED driver IC (DT) data signal
19	SFC1	I	SFC mode encoder input 1
20	SFC2	I	SFC mode encoder input 2
21	SEL1	I	Selector encoder for input 1
22	HOLD	I	Blackout detection terminal
23	SEL2	I	Selector encoder for input 2
24	D.PASS	0	DSP signal selector
25	RLY	-	Relay control output
26	LOUDNESS	O	Loudness control output
27	-	-	Not used.
28	VEE	-	Power supply for FL driver
29	S/C_SP	O	Surround/Center speaker control output

Pin No.	Mark	I/O	Function
30	SP_B	O	Speaker B control output
31	SP_A	O	Speaker A control output
32	AF_MUTE	O	Muting control output
33~48	SEG16~SEG1	O	FL segment signal output
49~58	DEG1~DEG10	O	FL digit signal output
59	INIT_IN	I	Diode input initial settings
60	VOL_DOWN	O	Volume control output (Down)
61	VOL_UP	O	Volume control output (Up)
62	-	-	Not used.
63	IF_DATA	I	Serial data signal
64	LIMITTER	O	Power limitter control output
65	T.CE	O	Tuner control (CE) chip enable signal
66	T.CK	O	Selector/Tuner (CK) clock signal
67	T.DT	O	Selector/Tuner (DT) data signal
68	SUR1	I	Encoder of surround mode selector input1
69	SUR2	I	Encoder of surround mode selector input2
70	COM_CK	O	Common clock signal
71	COM_DO	O	Common digital output signal
72	COM_DI	I	Common digital input signal
73	AVSS	-	GND for A-D converter
74	VREF	-	Reference voltage for A-D converter
75	SD	I	SD signal detect input
76	COM_REQS	O	Common serial request output
77	HELP_LED/RDS_CE	O	Help LED control output
78	COM_REQM	O	Common mechanical request output
79	VIDEO_B	O	Video selector control output B
80	VIDEO_A	O	Video selector control output A

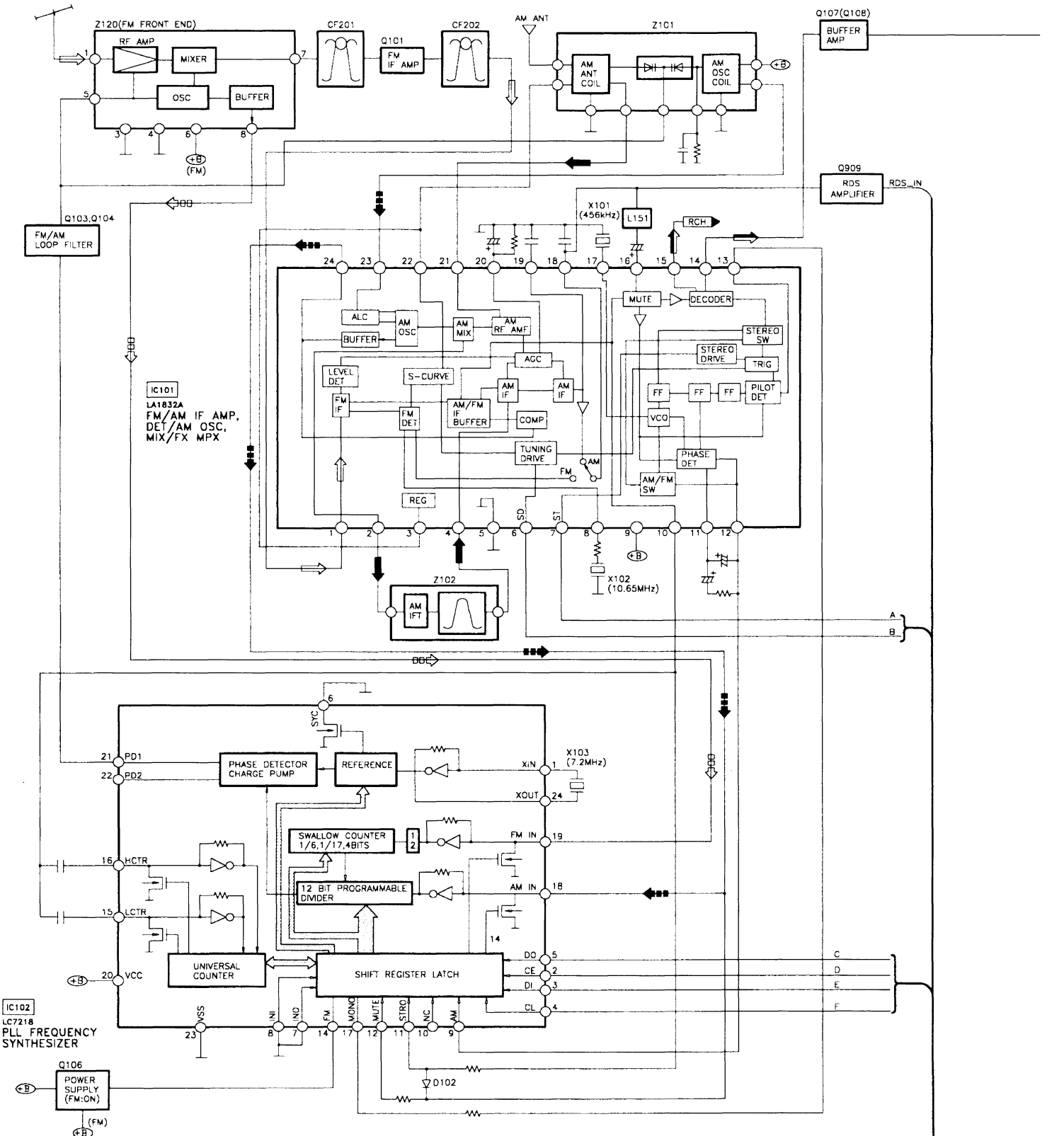
■ Type Illustration of ICs, Transistors and Diodes

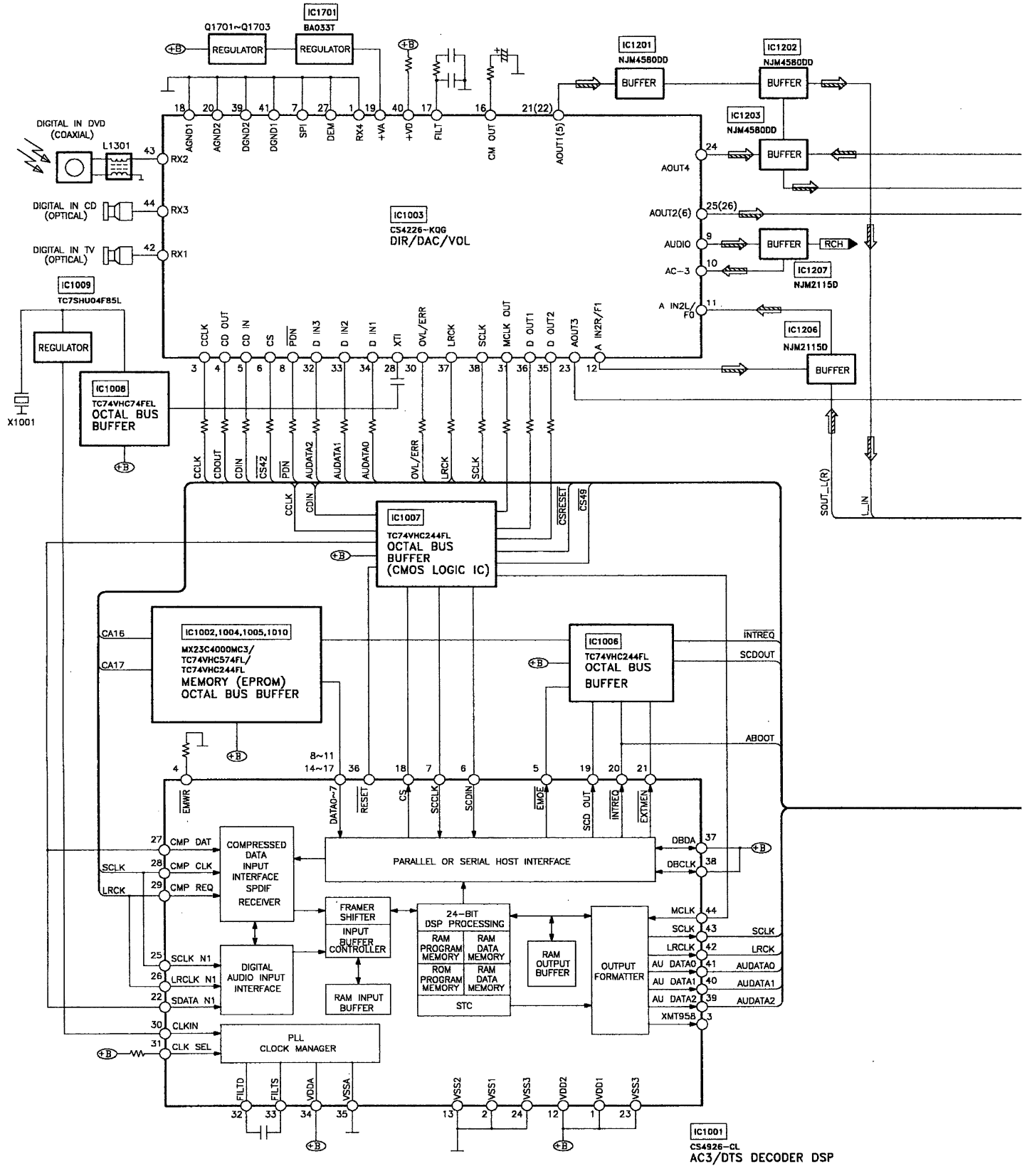
 M38B57M6127F M38B53M4059F CS4926-CL CS4226-KQG		RSN3305-P 	RSN310R36-P 	MX23C4000MC3 M62444FPE1 	TC9214AP 
LA1832A LC7218 	AN6558F 	BU2090A 	NJM2060D NJM2279D 	TC9162AN TC9163AN 	NJM4580DD NJM2115D 
BA6218 	TC74VHC74FEL 	TC74VCH574FL TC74VHC244FL 	TC7SHU04F85L 	BA033T 	SVC211SPA-AL 
2SB621AQSTA 2SD592AQSTA 	2SK544F-AC 		2SC2787LTA 2SC2786MTA 2SC2787FL1TA 2SC2785FETA 2SC3311ARTA 2SD1915FTA	2SK2880CTA 	2SD2137PQTA 
2SA933SSTA 2SC1740SSTA 	RVTDTA113ZST RVTDTA114EST RVTDTA143XST RVTDTC114EST RVTDTC114TST RVTDTC114YST RVTDTC143XST	2SB1548PQAU 2SD2374PQAU 	2SA1534AQRTA 2SC3940AQSTA 	1N5402BM21 RK306LFU1 	SLR325MCT31 SLR325VCT31 
	1SS291TA RVD1SS133TA MA700ATA 1SR35400V		MTZJ15CTA MTZJ18CTA MTZJ27DTA MTZJ3R3ATA MTZJ3R9ATA MTZJ4R3BTA MTZJ4R7BTA	MTZJ5R1BTA MTZJ5R6BTA MTZJ6R2BTA MTZJ6R2CTA MTZJ6R8BTA MTZJ7R5CTA MTZJ8R2CTA	

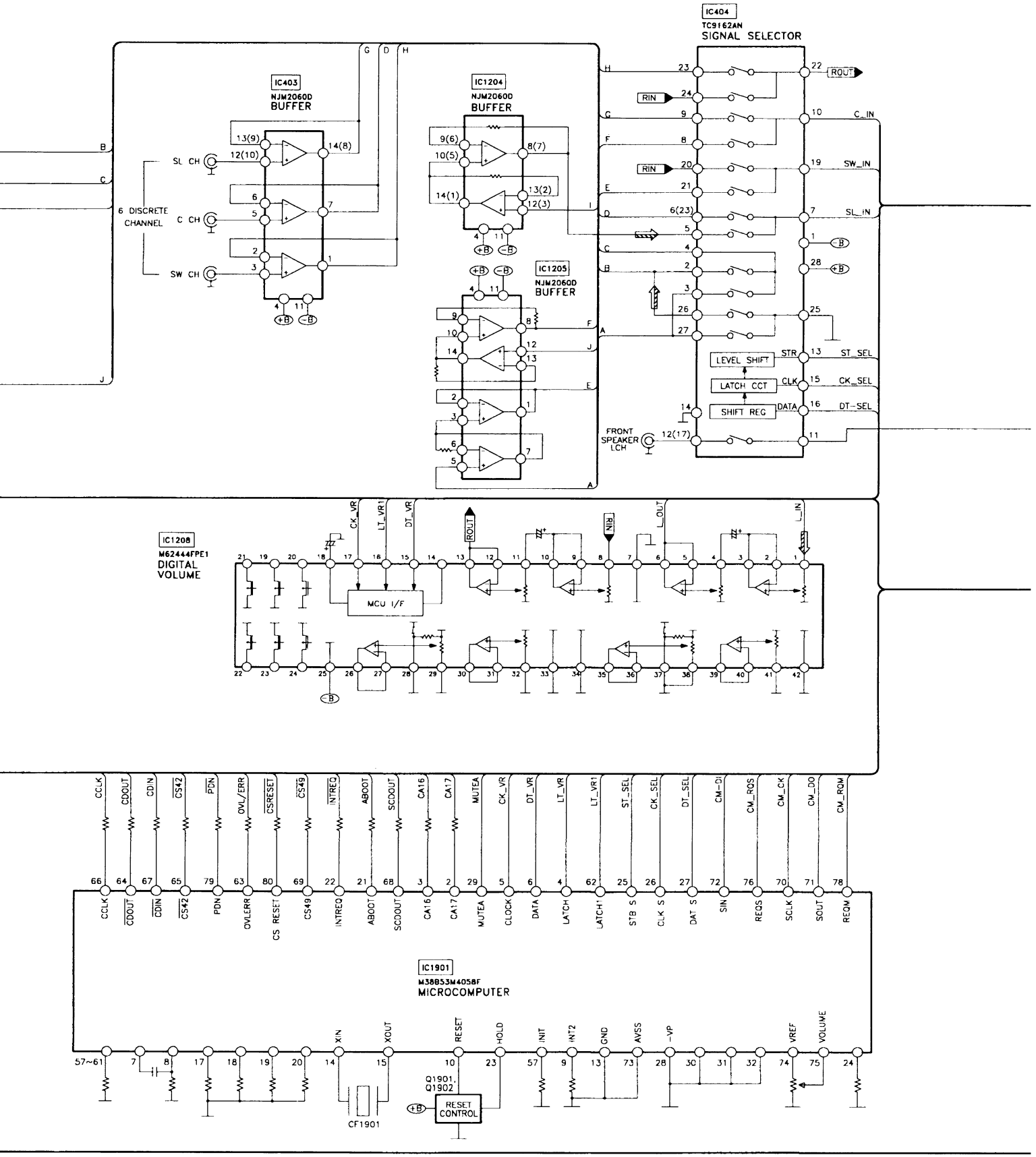
■ Wiring Connections Diagram

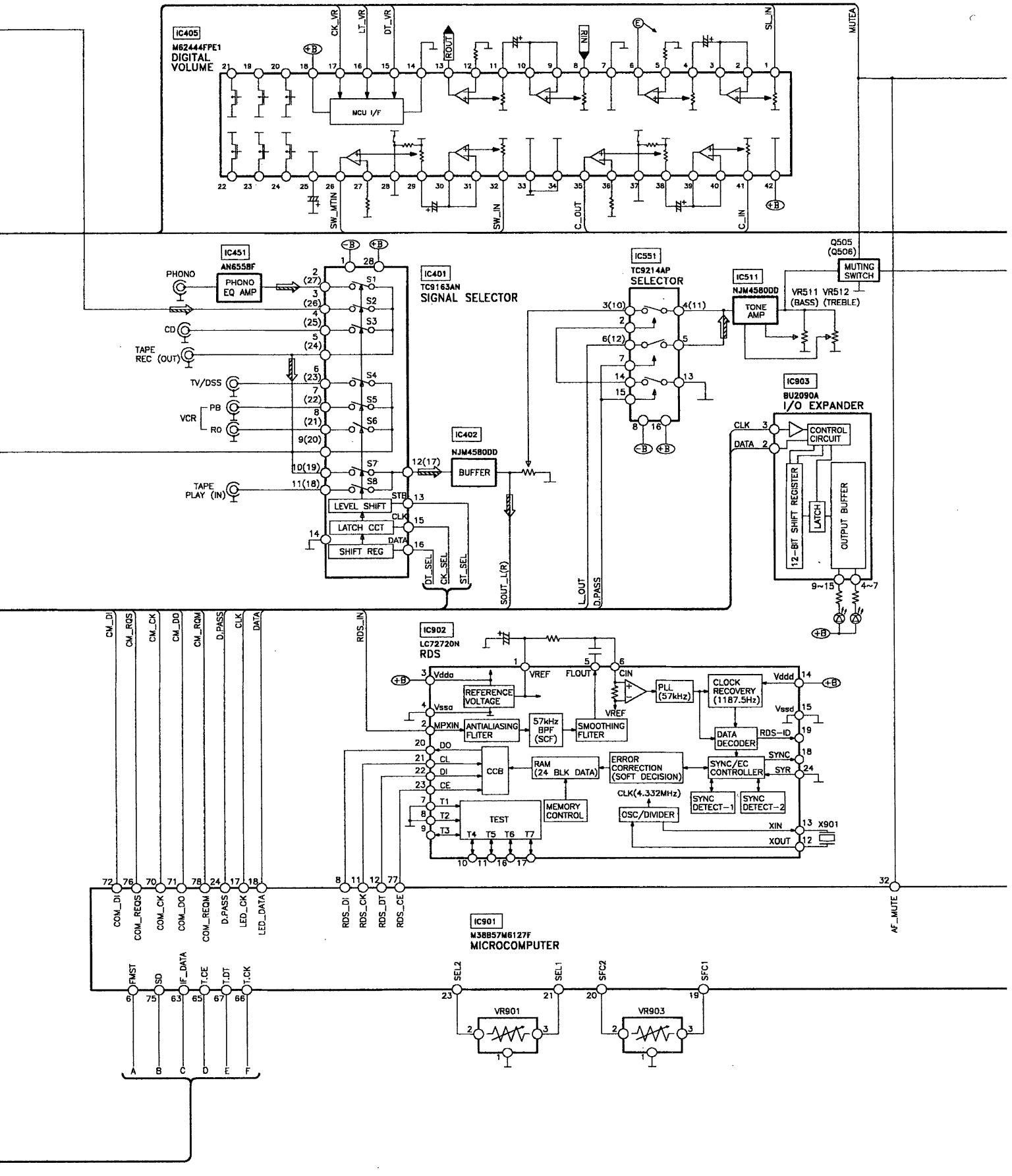


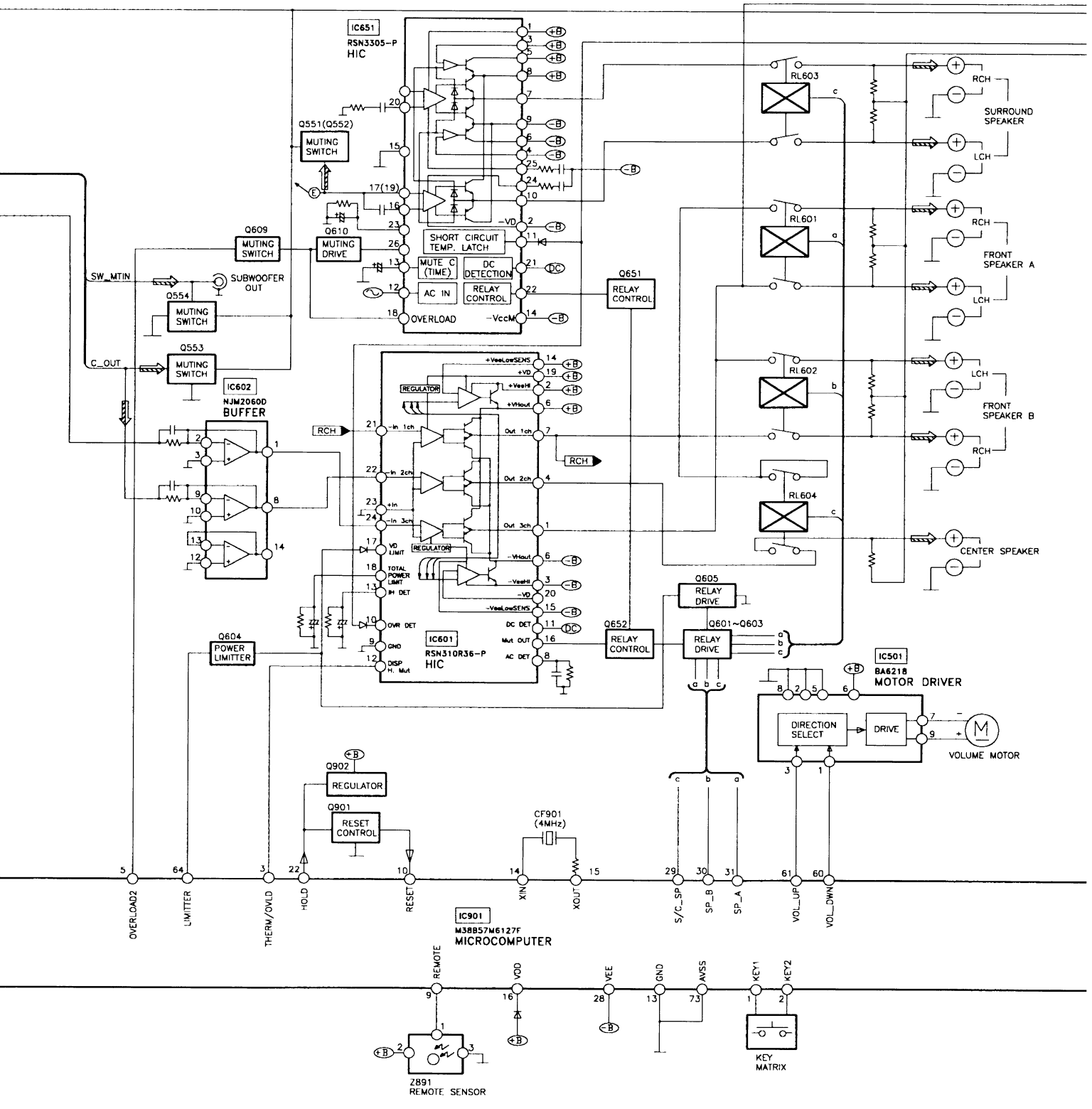
■ Block Diagram

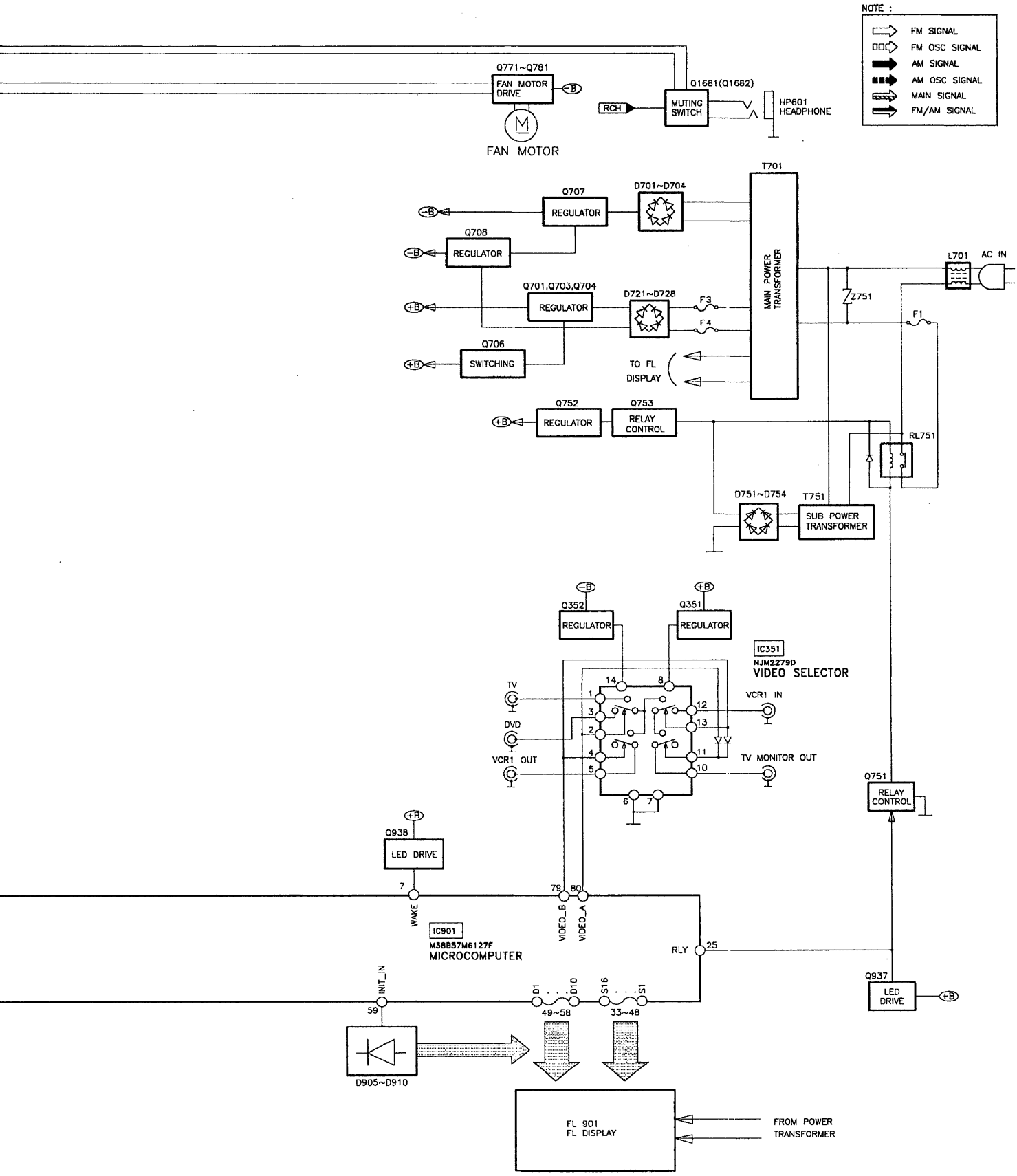



IC1701
BA033T
Q1701~Q1703
REGULATOR
REGULATOR
IC1201
NJM4580DD
BUFFER
IC1202
NJM4580DD
BUFFER
IC1203
NJM4580DD
BUFFER
DIGITAL IN DVD (COAXIAL)
L1301
DIGITAL IN CD (OPTICAL)
DIGITAL IN TV (OPTICAL)
RX2
RX3
RX1
AGND1
AGND2
DGND2
DGND1
SPI
DEM
RX4
+VA
+VD
FILT
CM OUT
AOUT1(5)
AOUT4
AOUT2(6)
AUDIO
AC-3
A IN2L/F0
BUFFER
RCH
IC1207
NJM2115D
IC1206
NJM2115D
BUFFER
IC1003
CS4226-KQG
DIR/DAC/VOL
IC1009
TC7SHU04F85L
REGULATOR
X1001
IC1008
TC74VHC74FEL
OCTAL BUS BUFFER
CCLK
CD OUT
CD IN
CS
PDN
D IN3
D IN2
D IN1
XTI
OVL/ERR
LRCK
SCLK
MCLK OUT
D OUT1
D OUT2
AOUT3
A IN2R/F1
CDOUT
CDIN
CS42
AUDATA2
AUDATA1
AUDATA0
IC1007
TC74VHC244FL
OCTAL BUS BUFFER
(CMOS LOGIC IC)
CSRESET
CS49
SOUT_L(R)
L_IN
IC1002,1004,1005,1010
MX23C4000MC3/
TC74VHC574FL/
TC74VHC244FL
MEMORY (EPROM)
OCTAL BUS BUFFER
CA16
CA17
IC1006
TC74VHC244FL
OCTAL BUS BUFFER
INTREQ
SCDOUT
ABOOT
EMWR
DATA0~7
RESET
CS
SCCLK
SCDIN
EMOE
SCD OUT
INTREQ
EXTMEM
CMP DAT
CMP CLK
CMP REQ
SCLK
LRCK
COMPRESSED DATA INPUT INTERFACE SPDIF RECEIVER
PARALLEL OR SERIAL HOST INTERFACE
DBDA
DBCLK
FRAMER SHIFTER
INPUT BUFFER CONTROLLER
RAM INPUT BUFFER
24-BIT DSP PROCESSING
RAM PROGRAM MEMORY
RAM DATA MEMORY
ROM PROGRAM MEMORY
RAM DATA MEMORY
STC
RAM OUTPUT BUFFER
OUTPUT FORMATTER
MCLK
SCLK
LRCLK
AU DATA0
AU DATA1
AU DATA2
XMT958
AUDATA0
AUDATA1
AUDATA2
SCLK N1
LRCLK N1
SDATA N1
DIGITAL AUDIO INPUT INTERFACE
CLKIN
CLK SEL
PLL CLOCK MANAGER
FILTD
FILTS
VDDA
VSSA
VSS2
VSS1
VSS3
VDD2
VDD1
VSS3
IC1001
CS4926-CL
AC3/DTS DECODER DSP


IC404
TC9162AN
SIGNAL SELECTOR
IC403
NJM2060D
BUFFER
IC1204
NJM2060D
BUFFER
IC1205
NJM2060D
BUFFER
6 DISCRETE CHANNEL
SL CH
C CH
SW CH
ROUT
RIN
C_IN
SW_IN
SL_IN
LEVEL SHIFT
LATCH CCT
SHIFT REG
STR
CLK
DATA
ST_SEL
CK_SEL
DT-SEL
FRONT SPEAKER LCH
IC1208
M62444FPE1
DIGITAL VOLUME
MCU I/F
CK_VR
LT_VR1
DT_VR
L_OUT
L_IN
IC1901
M38B53M4058F
MICROCOMPUTER
CF1901
Q1901, Q1902
RESET CONTROL
CCLK
CDOUT
CDIN
CS42
PDN
OVL/ERR
CSRESET
CS49
INTREQ
ABOOT
SCOUT
CA16
CA17
MUTEA
CLOCK
DATA
LATCH
LATCH1
STB S
CLK S
DAT S
SIN
REQS
SCLK
SOUT
REQM
CS RESET
OVLERR
XIN
XOUT
RESET
HOLD
INIT
INT2
GND
AVSS
-VP
VREF
VOLUME


IC405
M62444FPE1
DIGITAL VOLUME
MCU I/F
CK_VR
LT_VR
DT_VR
ROUT
RIN
SL_IN
MUTEA
SW_MTIN
SW_IN
C_OUT
C_IN
IC451
AN6558F
PHONO EQ AMP
PHONO
CD
TAPE REC (OUT)
TV/DSS
VCR
PB
RO
TAPE PLAY (IN)
IC401
TC9163AN
SIGNAL SELECTOR
LEVEL SHIFT
LATCH CCT
SHIFT REG
STB
CLK
DATA
DT_SEL
CK_SEL
ST_SEL
IC402
NJM4580DD
BUFFER
SOUT_L(R)
IC551
TC9214AP
SELECTOR
L_OUT
D.PASS
IC511
NJM4580DD
TONE AMP
Q505 (Q506)
MUTING SWITCH
VR511 VR512
(BASS) (TREBLE)
IC903
BU2090A
I/O EXPANDER
CONTROL CIRCUIT
12-BIT SHIFT REGISTER
LATCH
OUTPUT BUFFER
CLK
DATA
IC902
LC72720N
RDS
Vdda
Vssa
VREF
FLOUT
CIN
REFERENCE VOLTAGE
MPXIN
ANTIALIASING FLITER
57kHz BPF (SCF)
SMOOTHING FLITER
PLL (57kHz)
CLOCK RECOVERY (1187.5Hz)
Vddd
Vssd
DATA DECODER
RDS-ID
SYNC
SYR
SYNC/EC CONTROLLER
ERROR CORRECTION (SOFT DECISION)
RAM (24 BLK DATA)
CCB
DO
CL
DI
CE
TEST
MEMORY CONTROL
CLK(4.332MHz)
OSC/DIVIDER
SYNC DETECT-1
SYNC DETECT-2
XIN
XOUT
X901
IC901
M38B57M6127F
MICROCOMPUTER
CM_DI
CM_RQS
CM_CK
CM_DO
CM_RQM
D.PASS
CLK
DATA
RDS_IN
COM_DI
COM_REQS
COM_CK
COM_DO
COM_REQM
D.PASS
LED_CK
LED_DATA
RDS_DI
RDS_CK
RDS_DT
RDS_CE
AF_MUTE
FMST
SD
IF_DATA
T.CE
T.DT
T.CK
SEL2
SEL1
SFC2
SFC1
VR901
VR903
A
B
C
D
E
F


IC651
RSN3305-P
HIC
Q551(Q552)
MUTING SWITCH
Q609
MUTING SWITCH
Q610
MUTING DRIVE
SHORT CIRCUIT TEMP. LATCH
MUTE C (TIME)
DC DETECTION
AC IN
RELAY CONTROL
OVERLOAD
-VccM
Q651
RELAY CONTROL
SW_MTIN
SUBWOOFER OUT
Q554
MUTING SWITCH
C_OUT
Q553
MUTING SWITCH
IC602
NJM2060D
BUFFER
RCH
REGULATOR
IC601
RSN310R36-P
HIC
Q604
POWER LIMITTER
Q652
RELAY CONTROL
Q605
RELAY DRIVE
Q601~Q603
RELAY DRIVE
RL603
RL601
RL602
RL604
RCH
LCH
SURROUND SPEAKER
FRONT SPEAKER A
FRONT SPEAKER B
CENTER SPEAKER
IC501
BA6218
MOTOR DRIVER
DIRECTION SELECT
DRIVE
VOLUME MOTOR
Q902
REGULATOR
Q901
RESET CONTROL
CF901
(4MHz)
IC901
M38B57M6127F
MICROCOMPUTER
OVERLOAD
LIMITTER
THERM/OVLD
HOLD
RESET
XIN
XOUT
S/C_SP
SP_B
SP_A
VOL_UP
VOL_DWN
REMOTE
VDD
VEE
GND
AVSS
KEY1
KEY2
Z891
REMOTE SENSOR
KEY MATRIX


NOTE :
FM SIGNAL
FM OSC SIGNAL
AM SIGNAL
AM OSC SIGNAL
MAIN SIGNAL
FM/AM SIGNAL
Q771~Q781
FAN MOTOR DRIVE
FAN MOTOR
Q1681(Q1682)
MUTING SWITCH
RCH
HP601 HEADPHONE
T701
MAIN POWER TRANSFORMER
Q707
REGULATOR
D701~D704
Q708
REGULATOR
Q701,Q703,Q704
REGULATOR
D721~D728
F3
F4
Q706
SWITCHING
TO FL DISPLAY
L701
AC IN
Z751
F1
Q752
REGULATOR
Q753
RELAY CONTROL
RL751
D751~D754
T751
SUB POWER TRANSFORMER
Q352
REGULATOR
Q351
REGULATOR
IC351
NJM2279D
VIDEO SELECTOR
TV
DVD
VCR1 OUT
VCR1 IN
TV MONITOR OUT
Q751
RELAY CONTROL
Q938
LED DRIVE
WAKE
VIDEO_B
VIDEO_A
IC901
M38B57M6127F
MICROCOMPUTER
RLY
INIT_IN
D1 . . . D10
S16 . . . S1
49~58
33~48
Q937
LED DRIVE
D905~D910
FL 901
FL DISPLAY
FROM POWER TRANSFORMER

Schematic Diagram

		Page
A	MAIN CIRCUIT	26 ~ 29
B	PANEL CIRCUIT	30 ~ 33
C	TUNER CIRCUIT	40 ~ 41
E	POWER CIRCUIT	25
F	TRANSFORMER CIRCUIT	25
G	AC IN/OUT CIRCUIT	25
H	OPERATION CIRCUIT	25
I	HEADPHONE JACK CIRCUIT	33
J	DSP CIRCUIT	34 ~ 35
K	PRO LOGIC CIRCUIT	36 ~ 37
L	DTS MODULE CIRCUIT	38 ~ 39
M	SPEAKER CIRCUIT	25

(All schematic diagrams may be modified at any time with the development of new technology)

Note :

- S950 : Power switch
- S951 : Speaker A select switch
- S952 : DVD 6CH input switch
- S953 : Subwoofer select switch
- S954 : Digital signal processor on/ defeat select switch (display)
- S955 : Tunning decrease switch
- S956 : Tunning increase switch
- S957 : Tuning mode preset switch
- S958 : Digital input select switch
- S960 : Tape monitor select switch
- S961 : PTY search switch
- S962 : EON switch
- S963 : RDS Display mode switch
- S964 : Memory switch
- S965 : Band select switch
- S966 : FM mode switch
- S967 : Speaker B select switch
- S968 : Timer switch
- S969 : Help / Reset switch

- VR501 : Volume control
- VR502 : Balance control
- VR511 : Bass control
- VR512 : Treble control
- VR901 : Digital input selector knob
- VR902 : DSP select knob
- VR903 : Mode SFC on/off knob

- **Signal line**

: +B Line

: - B Line

: FM/AM Signal Line

: AM Signal Line

: AM OSC Signal Line

: Main Signal Line

: FM Signal Line

: FM OSC Signal Line

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis.
  Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

< > : FM

- **Importance safety notice:**
  Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

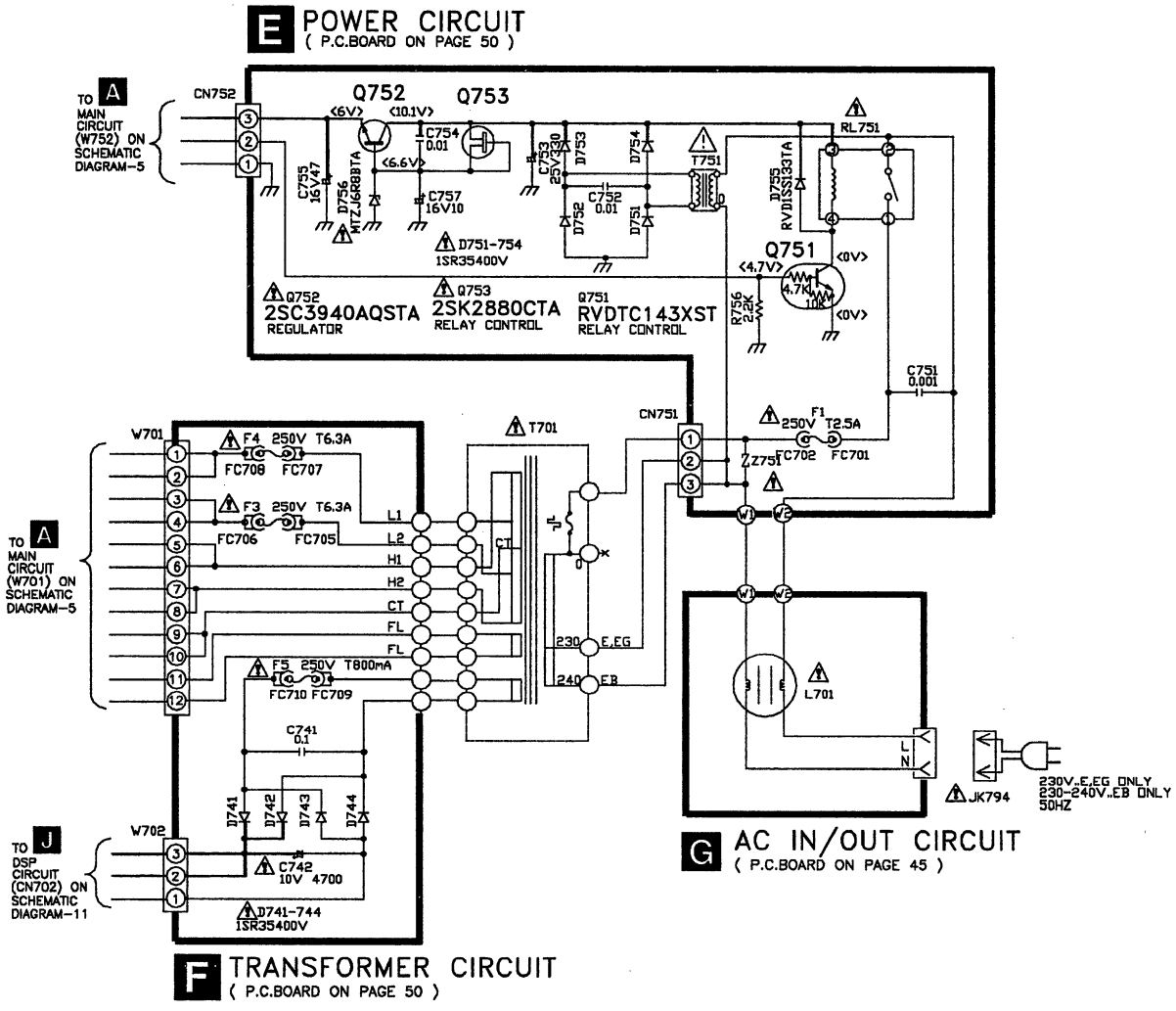
Caution !

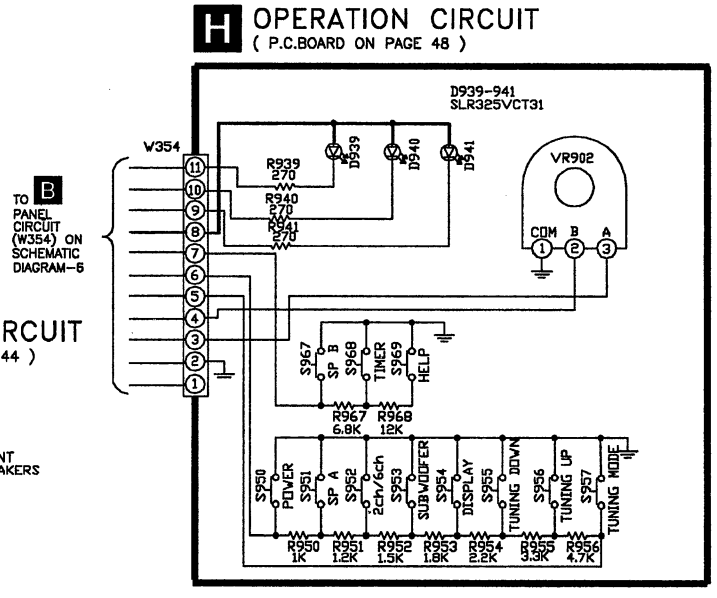
IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

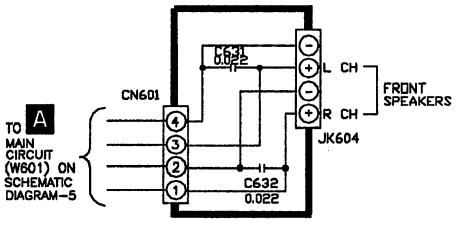
- Cover the parts boxes made of plastics with aluminium foil.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.
- Put a conductive mat on the work table.

CHEMATIC DIAGRAM - 1

—— : +B line



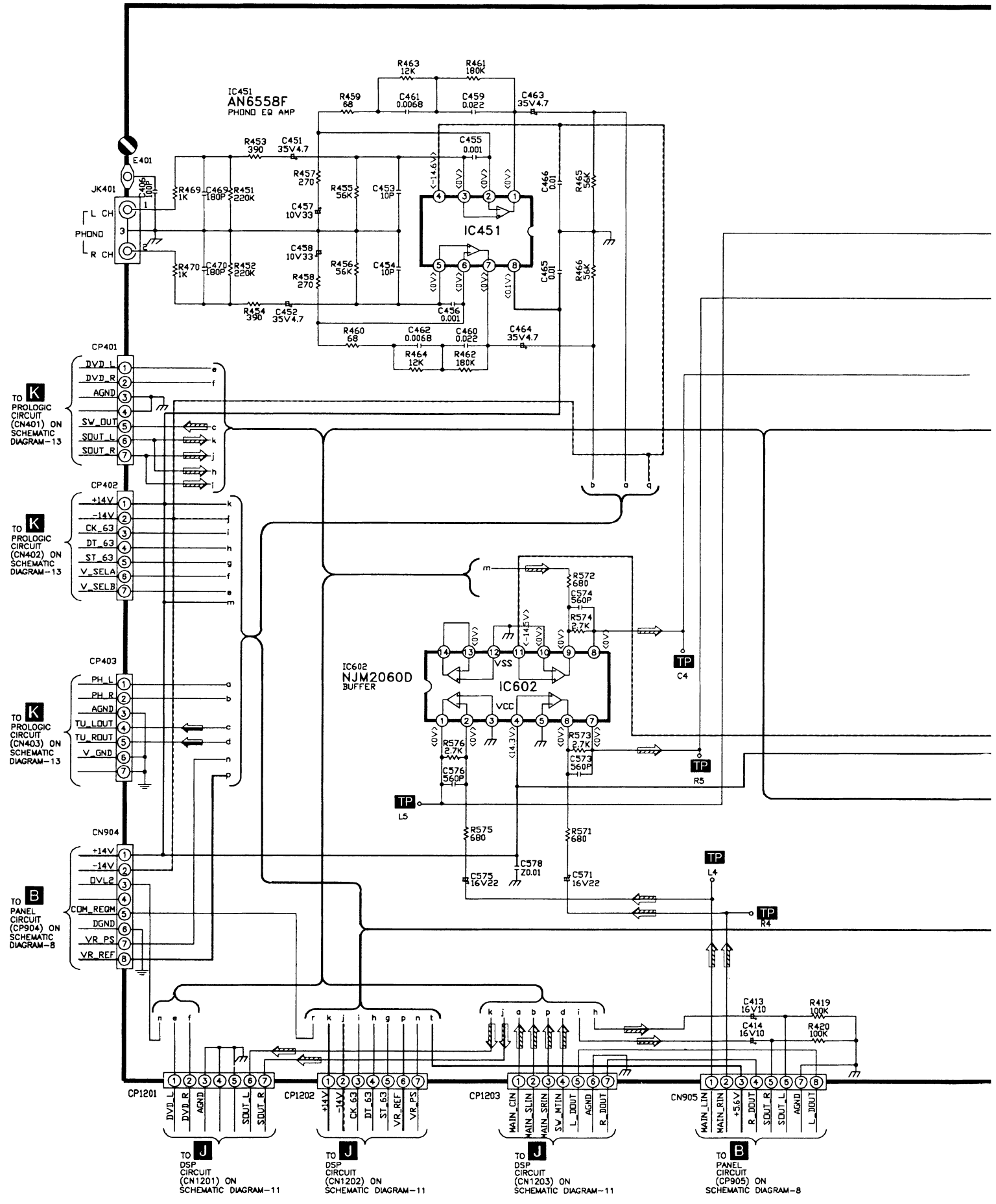




SCHEMATIC DIAGRAM - 2

A MAIN CIRCUIT
(P.C.BOARD ON PAGE 42)

——— : +B line
------ : −B line
⇨ : Main signal line
⇨ : FM/AM signal line

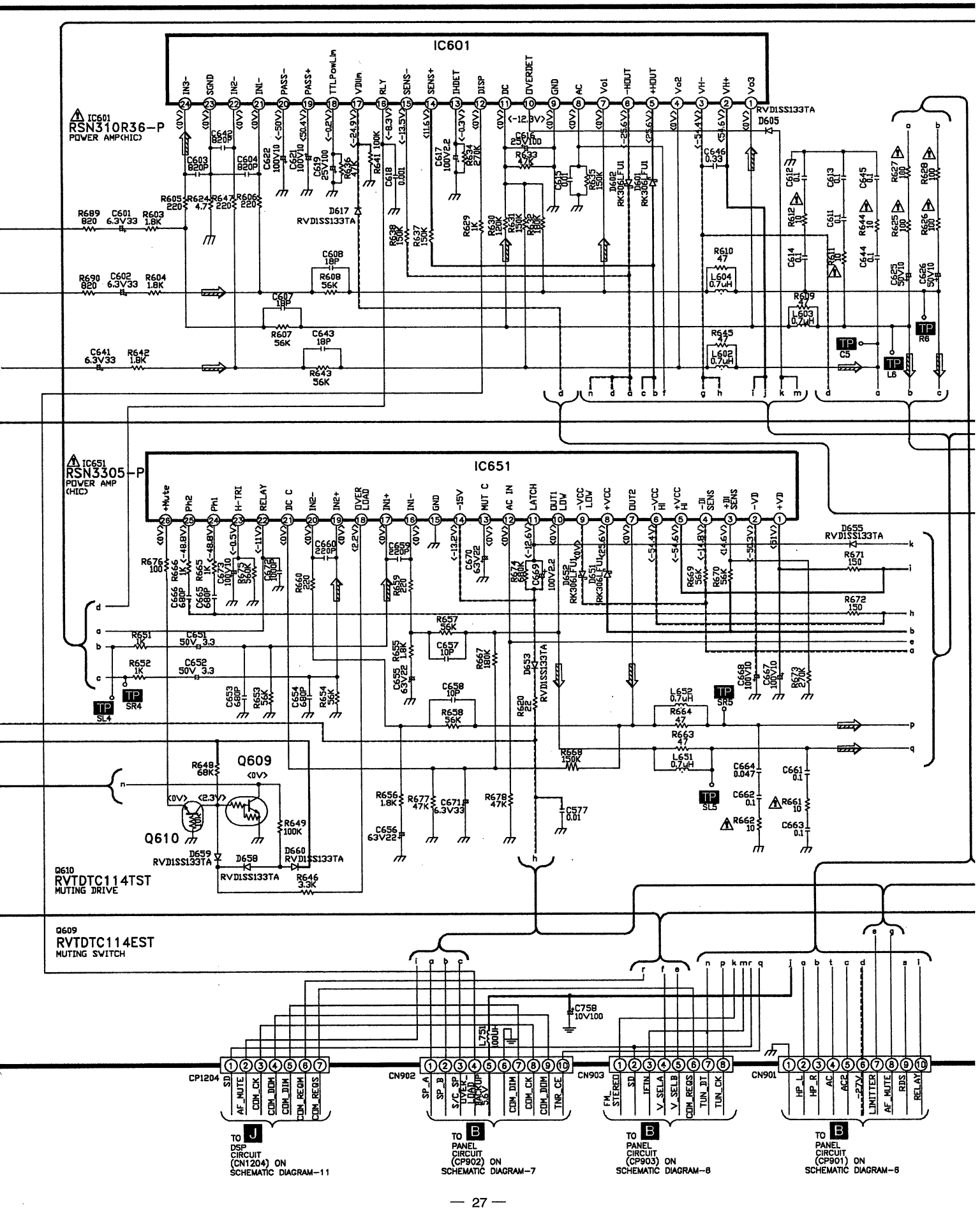


SCHEMATIC DIAGRAM - 3

——— : +B line

------ : −B line

⇒ : Main signal line



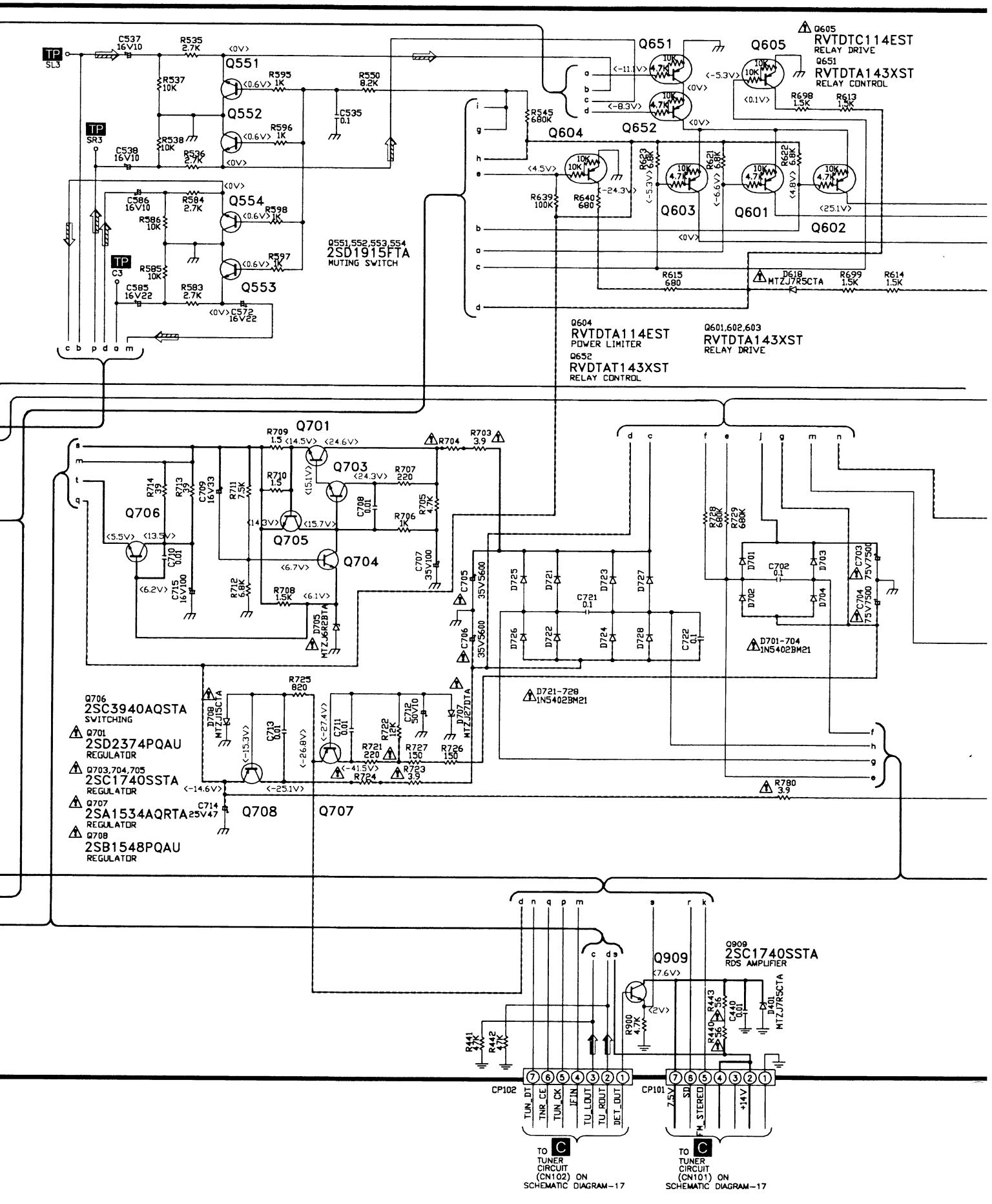
SCHEMATIC DIAGRAM - 4

——— : +B line

------ : −B line

⇨ : Main signal line

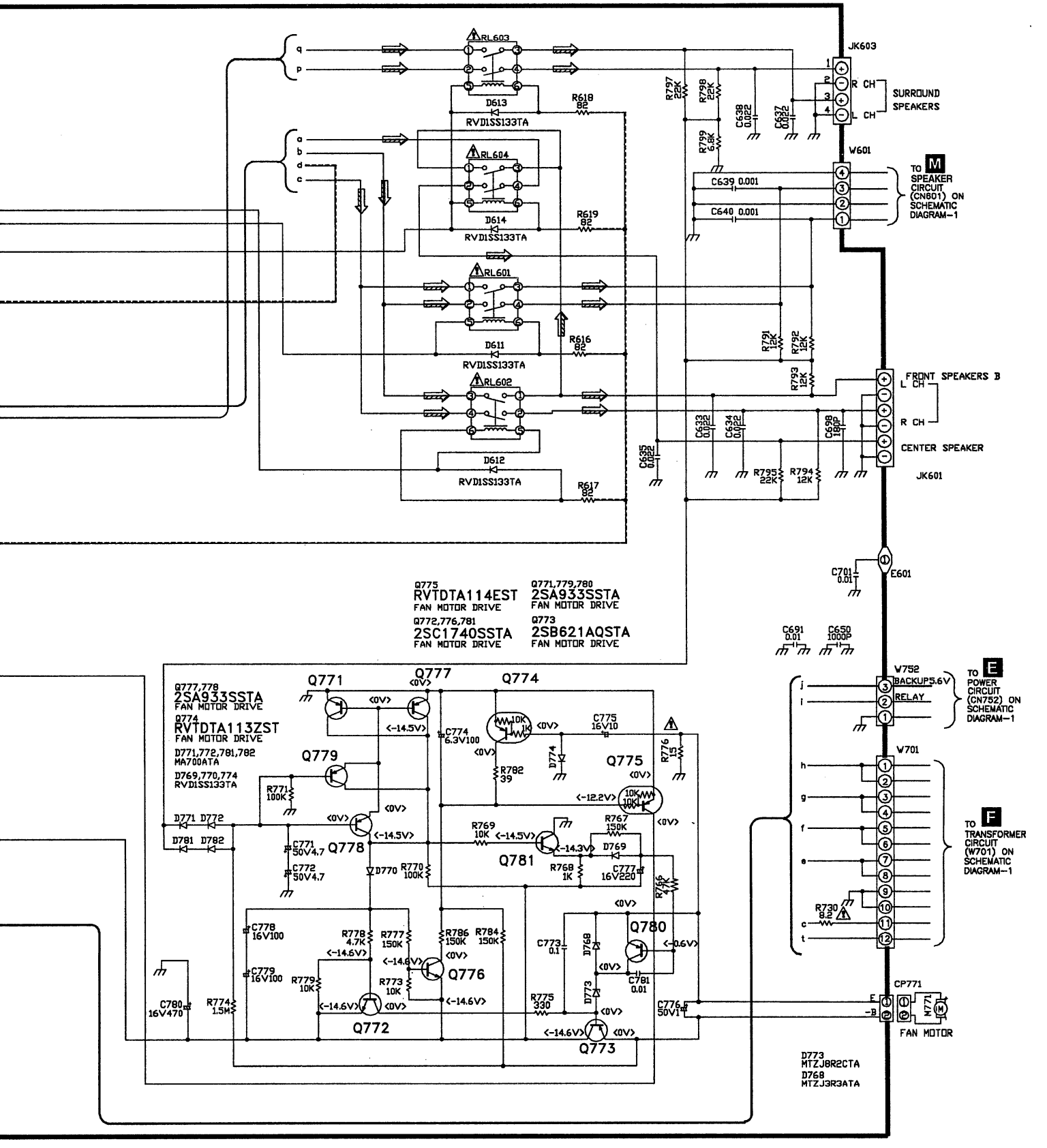
➡ : FM/AM signal line



CHEMATIC DIAGRAM - 5

——: +B line ⇒: Main signal line

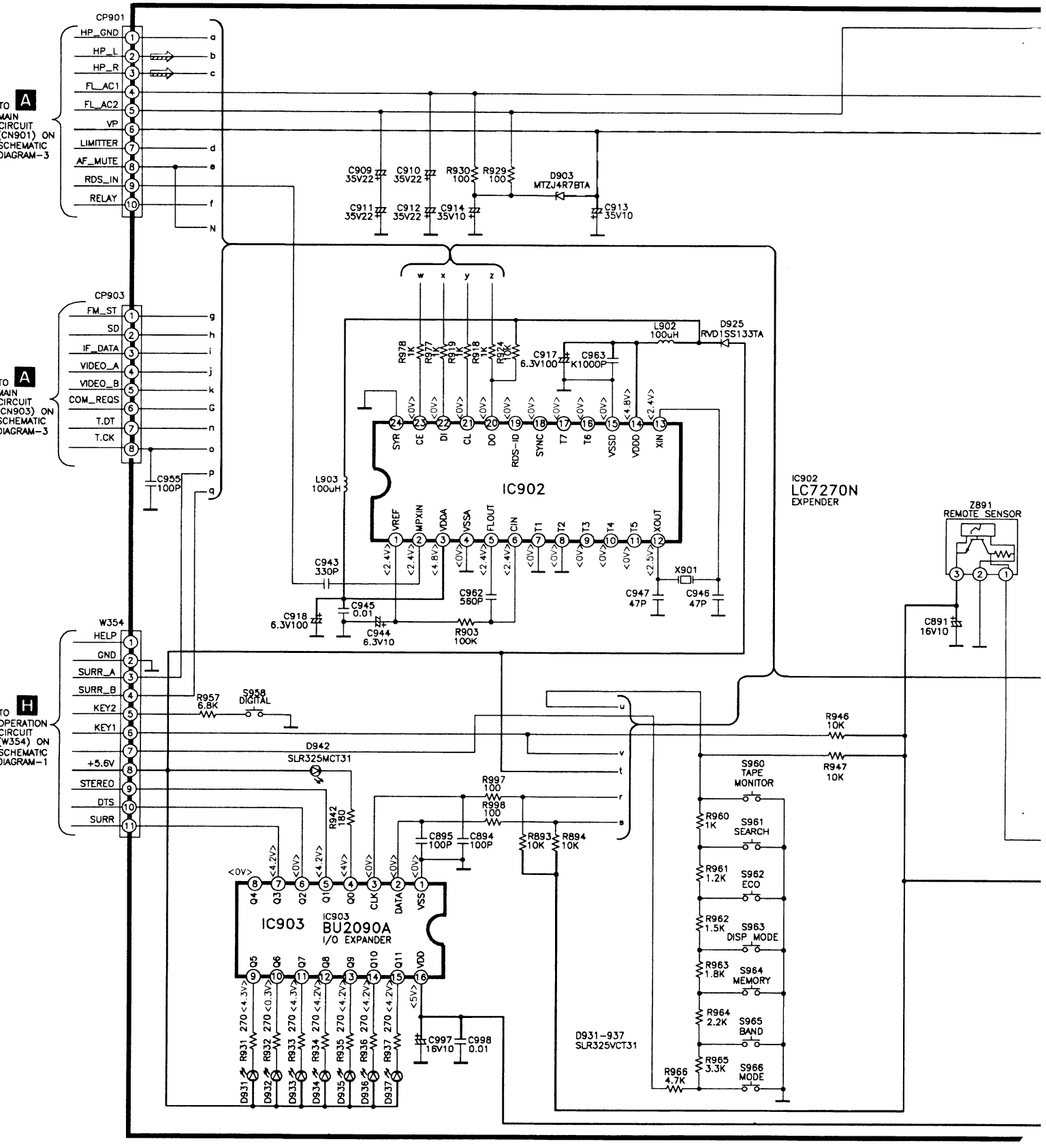
------: −B line



SCHEMATIC DIAGRAM - 6

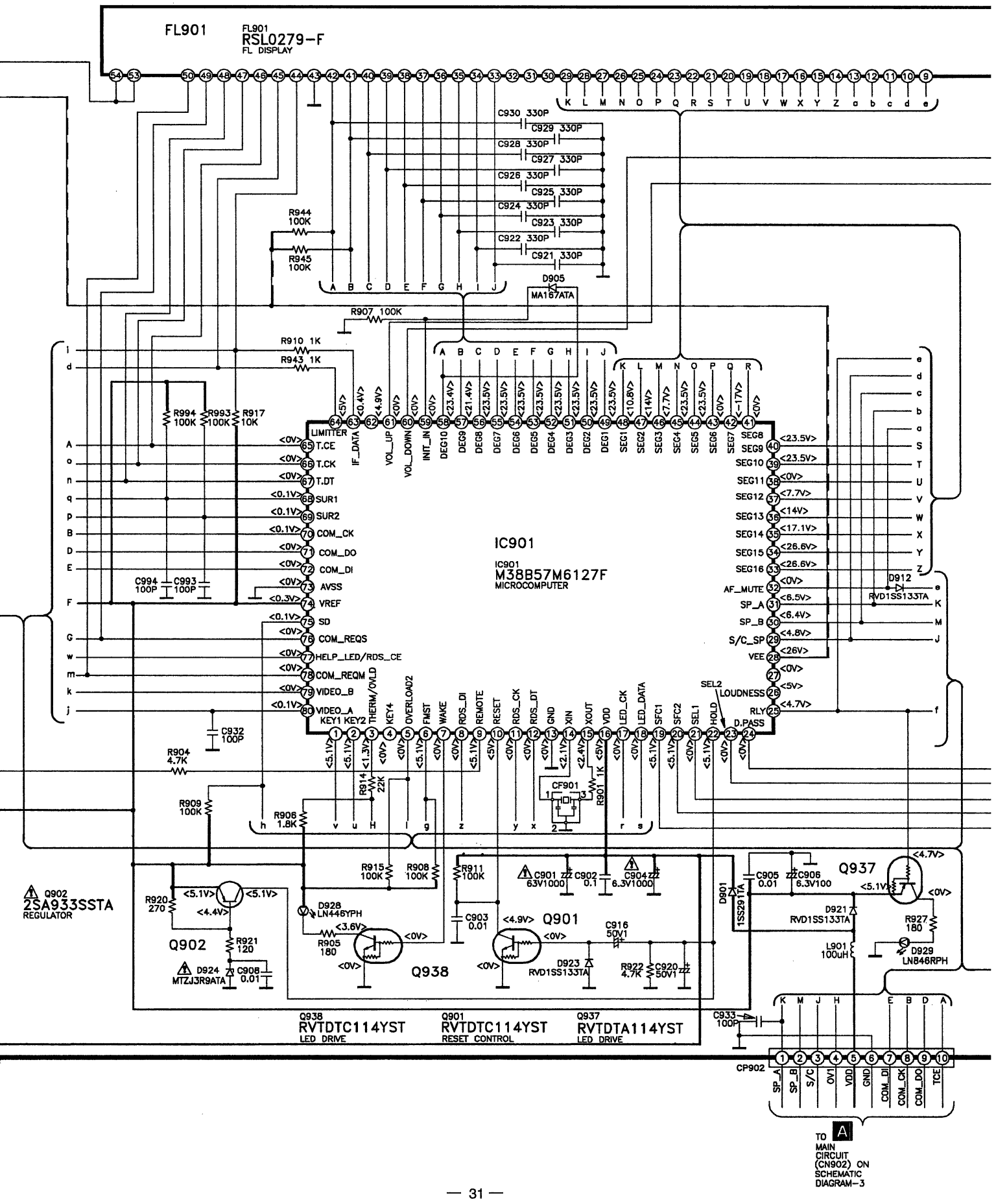
: +B Line : −B Line : Main Signal Line

B PANEL CIRCUIT (P.C.BOARD ON PAGE 44)



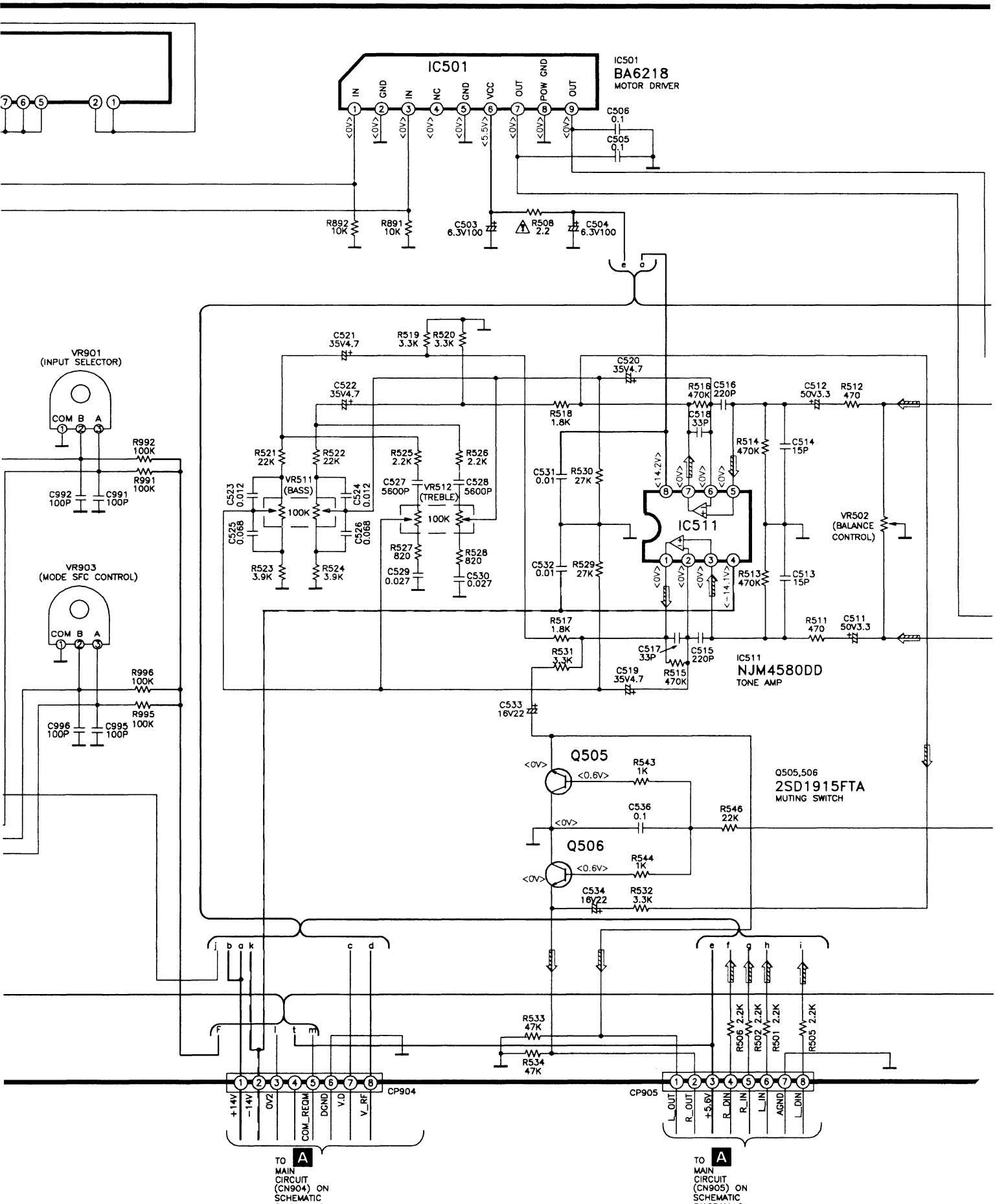
CHEMATIC DIAGRAM - 7

———— : +B Line　　— — — — — : −B Line



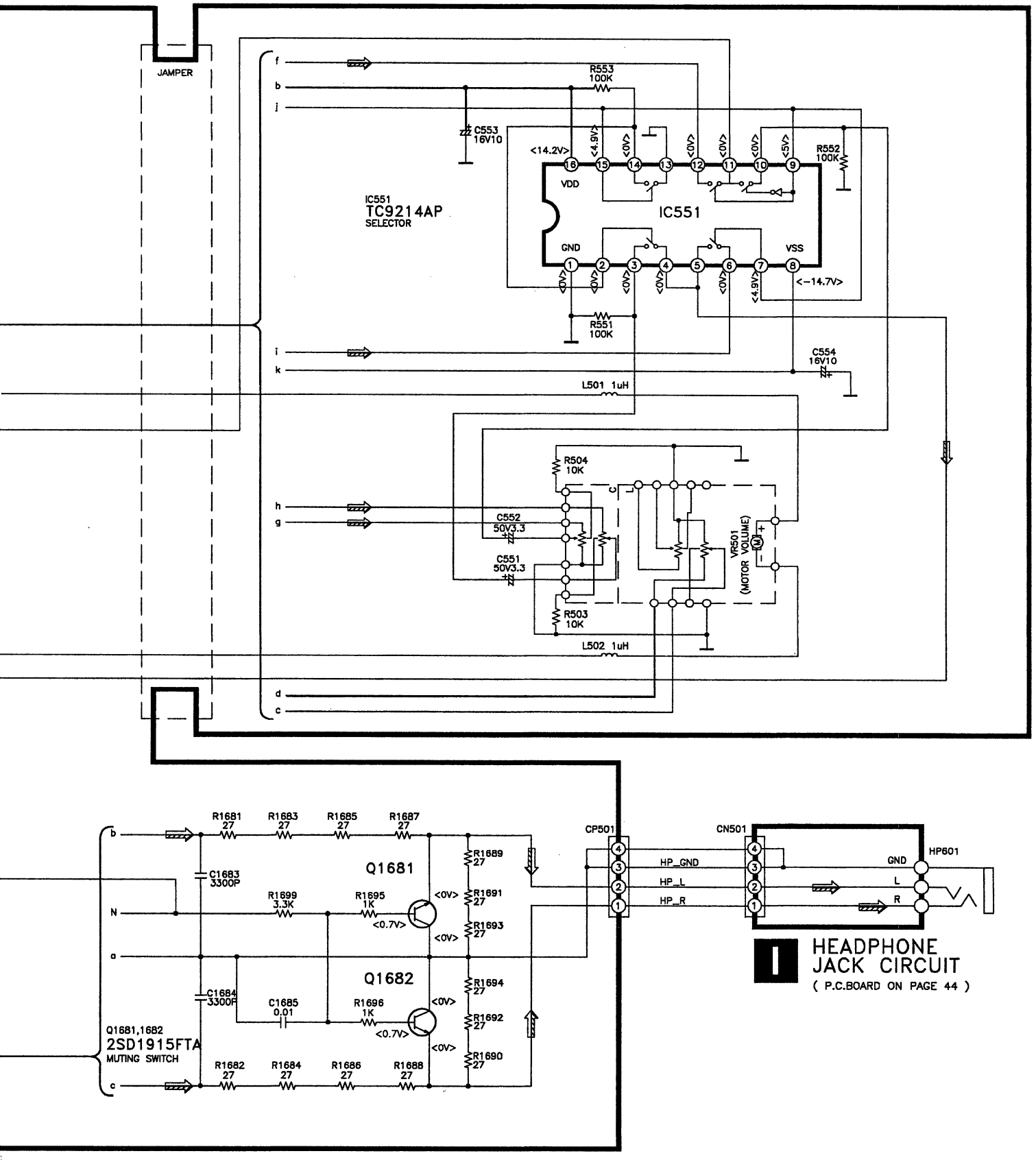
SCHEMATIC DIAGRAM - 8

———— : +B Line　　– — — — — : –B Line　　⇨ : Main Signal Line



CHEMATIC DIAGRAM - 9

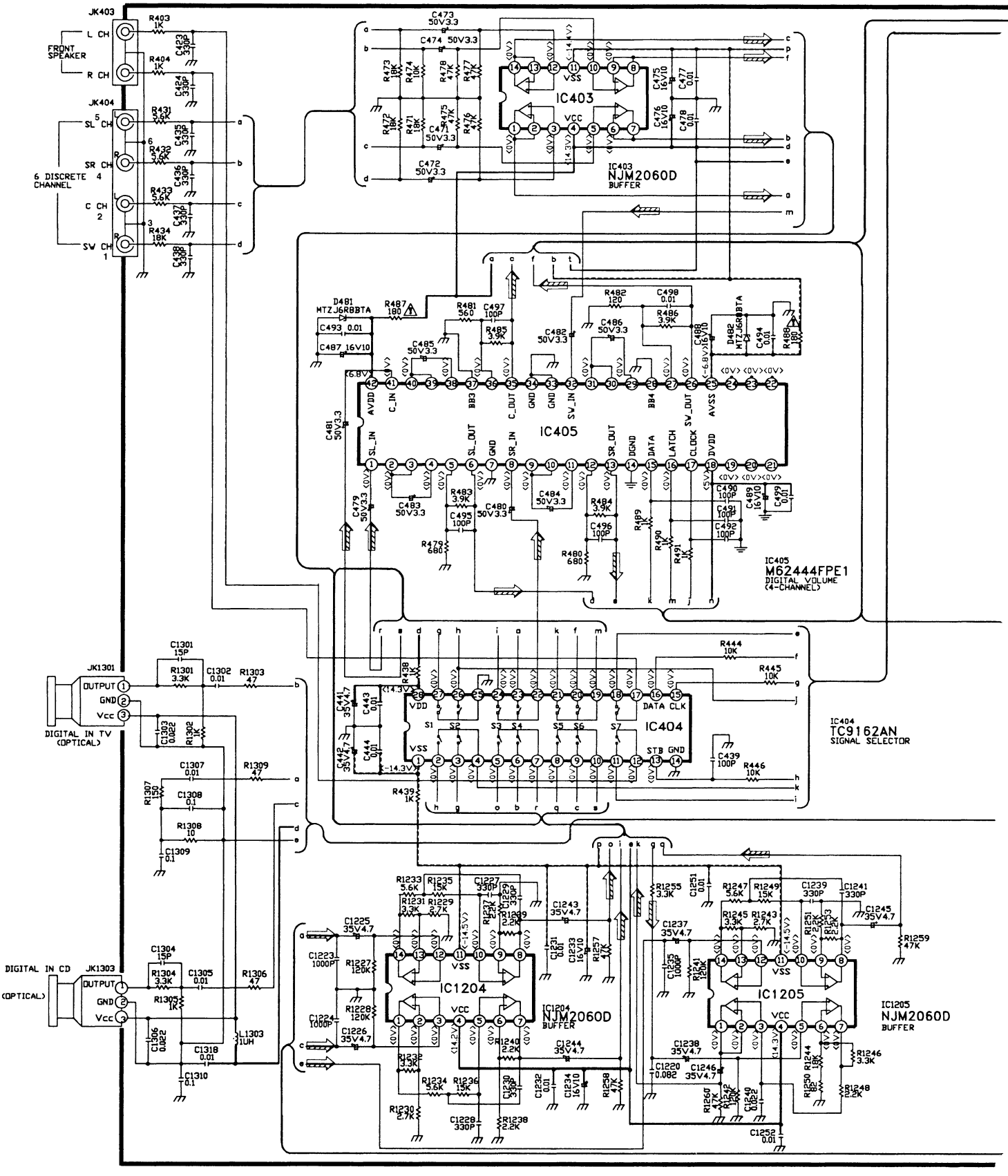
——— : +B Line　　– – – – – : –B Line　　⇨ : Main Signal Line



SCHEMATIC DIAGRAM - 10

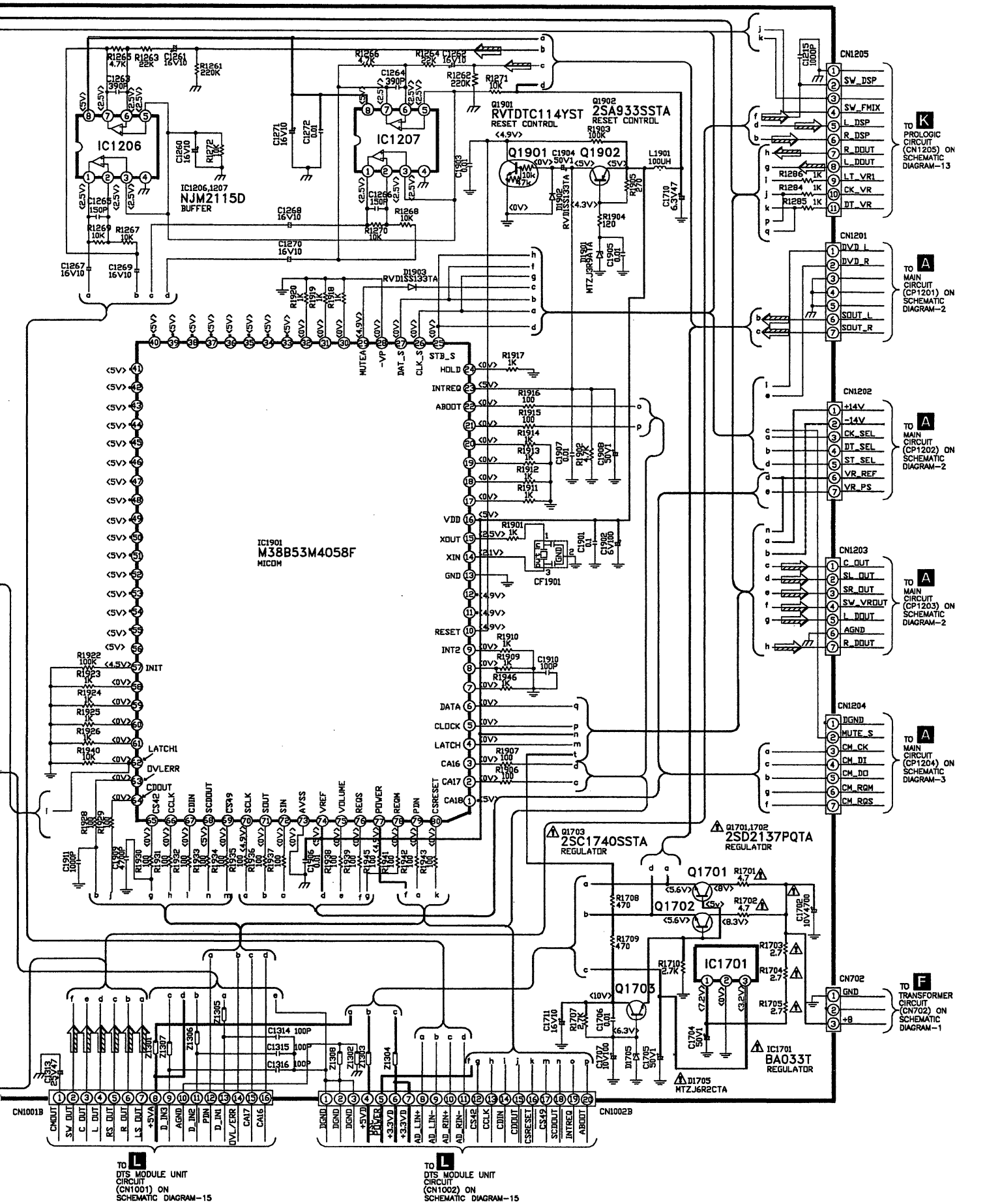
—— : +B line ------ : −B line ⇨ : Main signal line

J DSP CIRCUIT (P.C.BOARD ON PAGE 46)



CHEMATIC DIAGRAM - 11

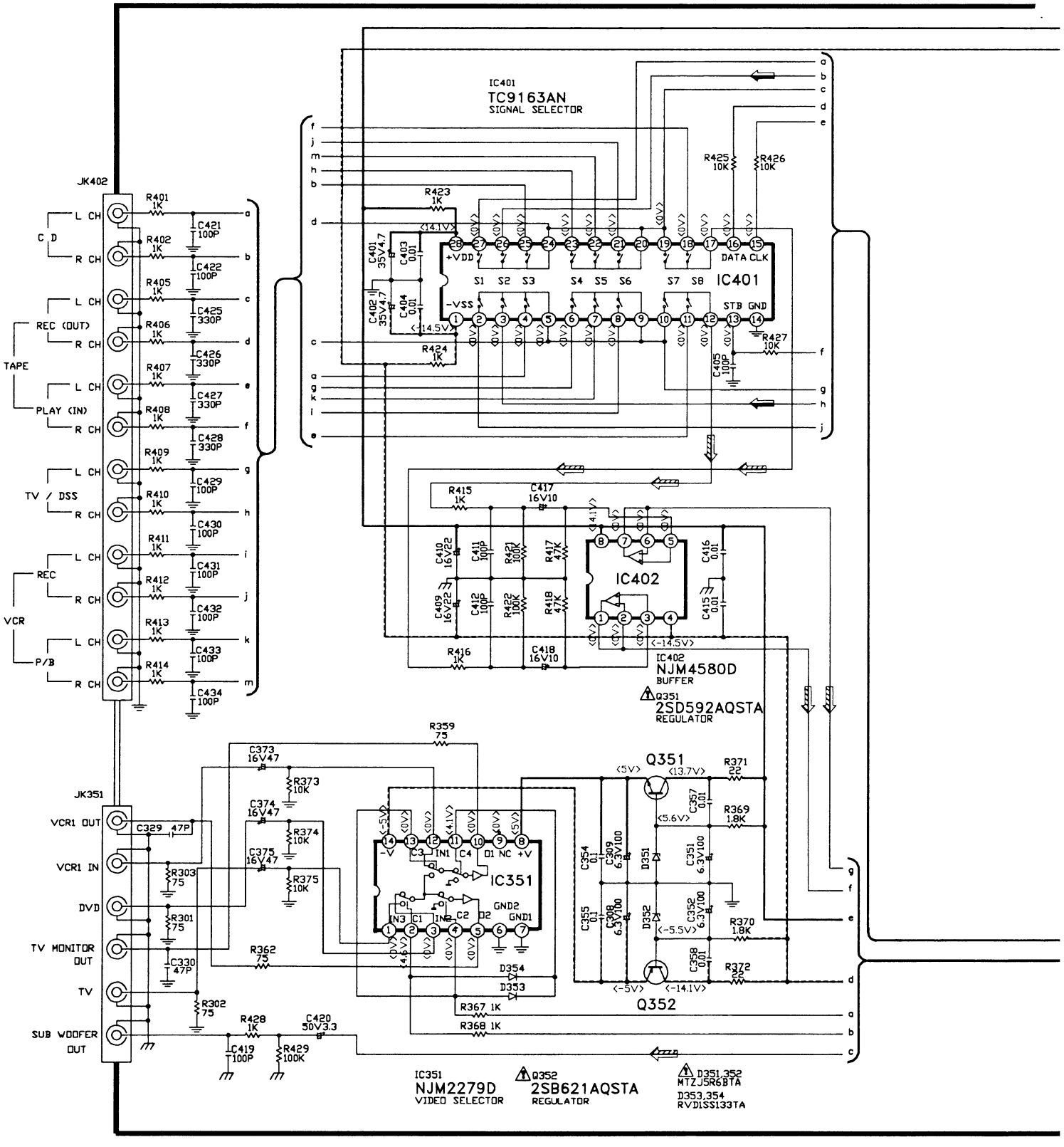
——— : +B line ------ : −B line ⇒ : Main signal line



SCHEMATIC DIAGRAM - 12

—— : +B line ⇨ : Main signal line
------ : −B line ➡ : FM/AM signal line

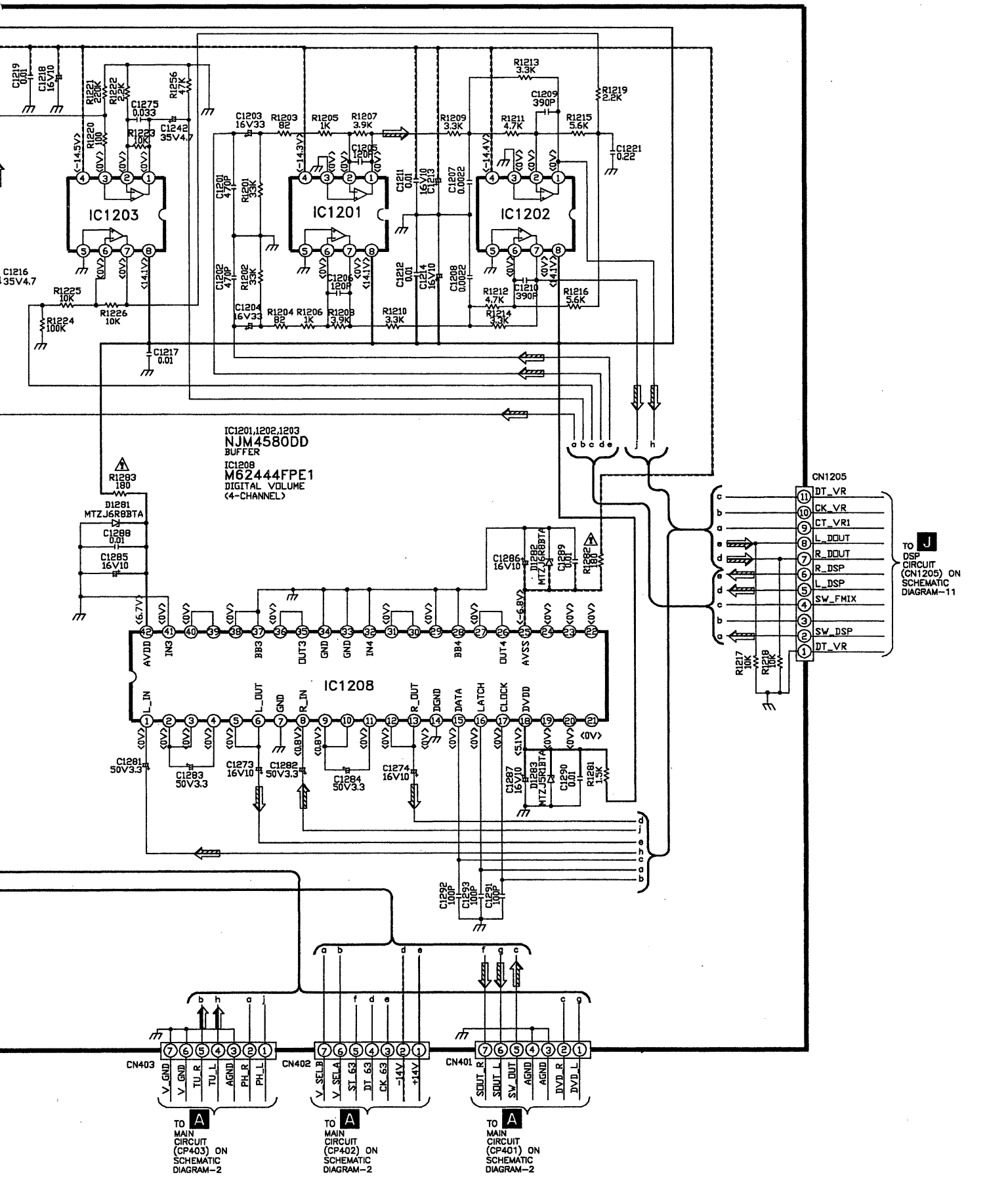
K PRO LOGIC CIRCUIT (P.C.BOARD ON PAGE 47)



SCHEMATIC DIAGRAM - 13

——— : +B line ⇨ : Main signal line

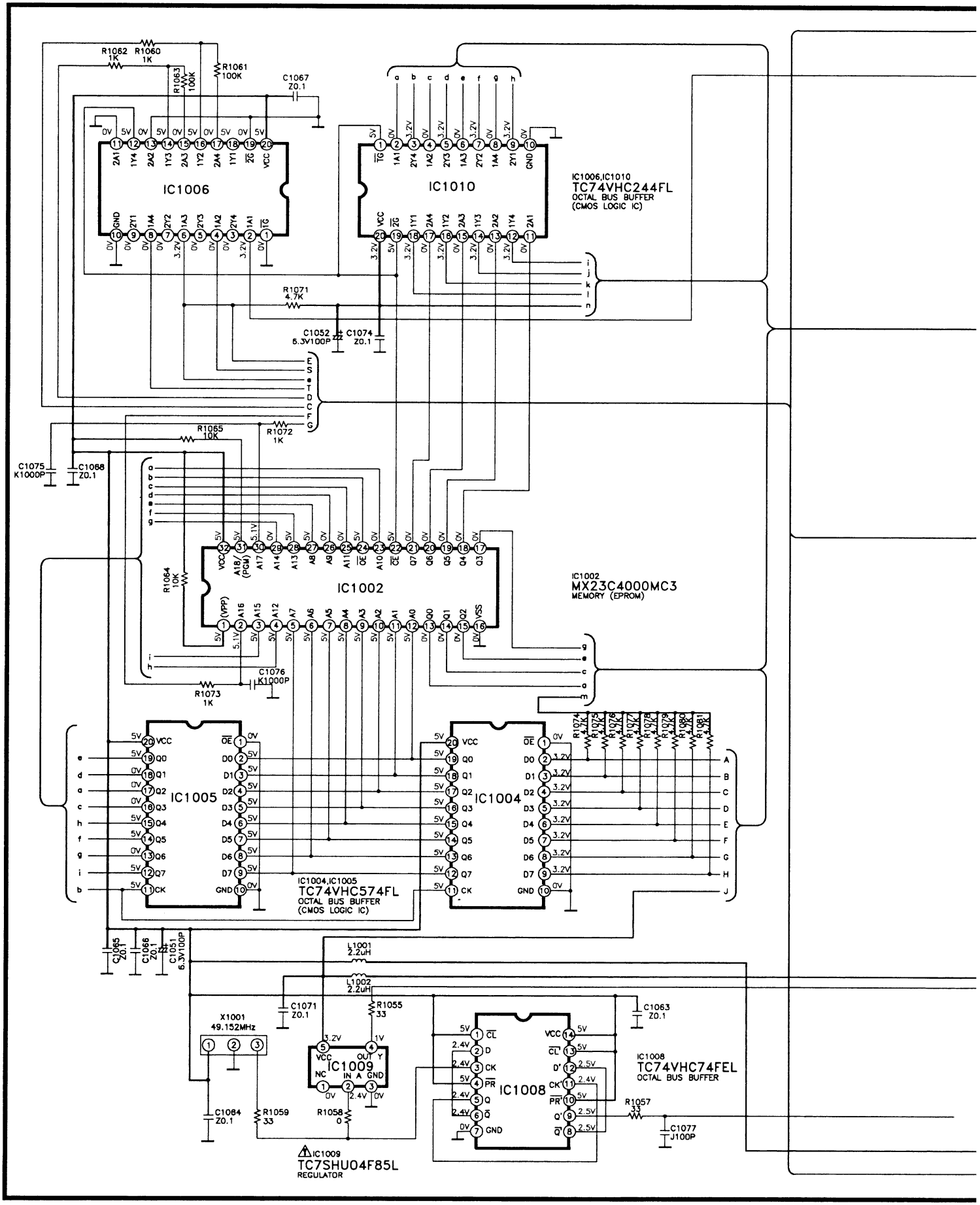
------ : −B line ⇨ : FM/AM signal line



SCHEMATIC DIAGRAM - 14

——— : +B Line

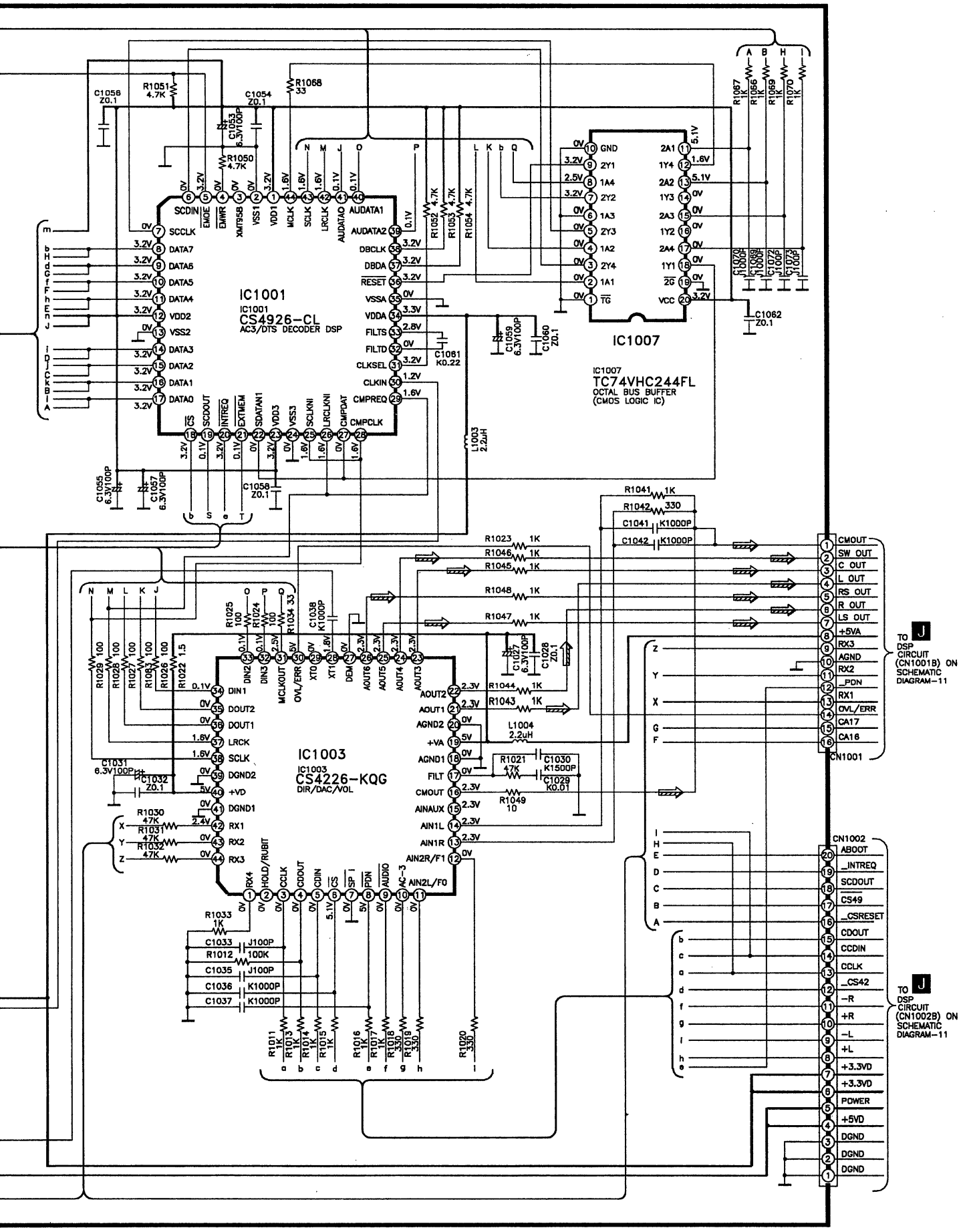
L DTS MODULE CIRCUIT (P.C.BOARD ON PAGE 49)



SCHEMATIC DIAGRAM - 15

——— : +B Line

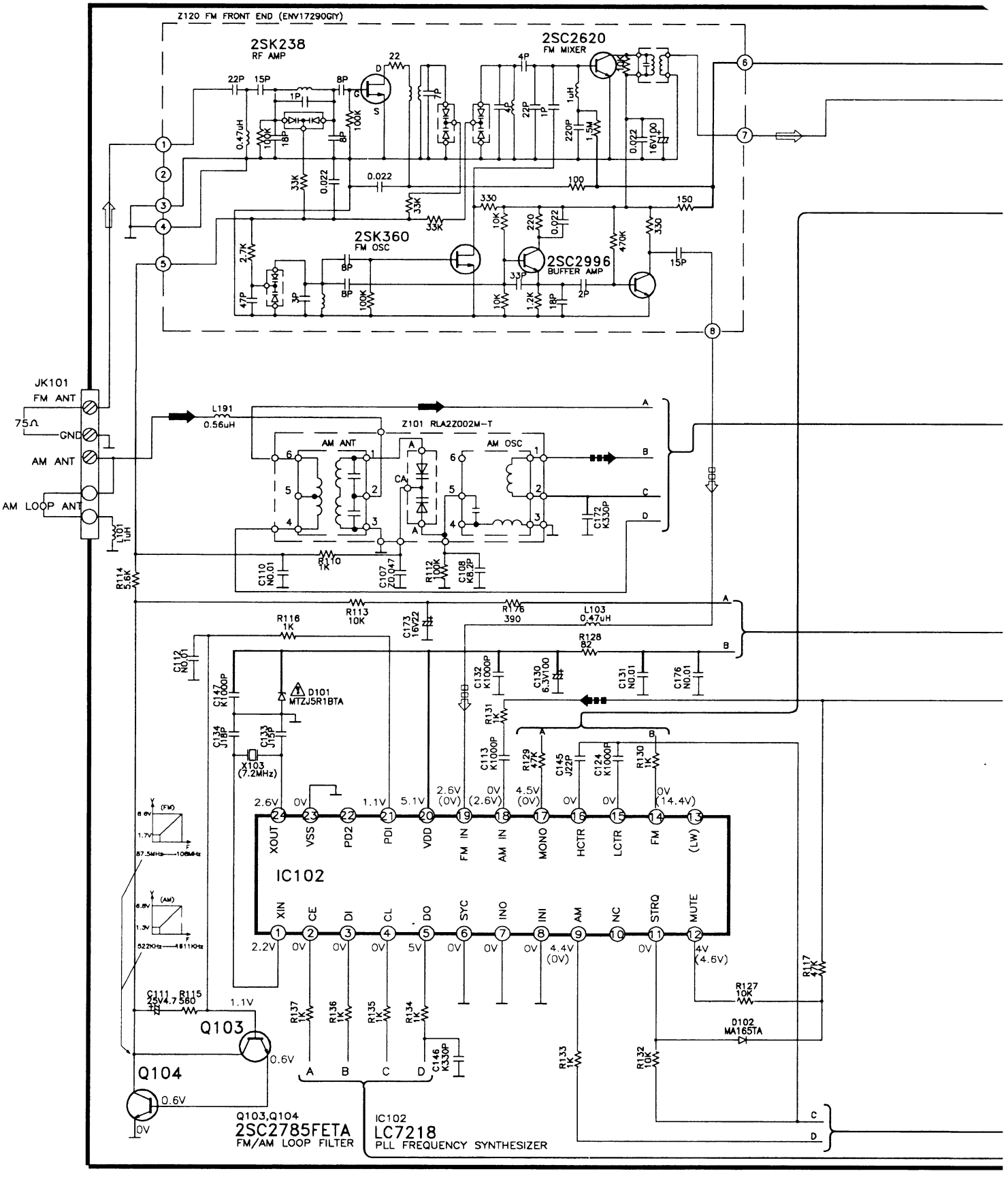
⇒ : Main Signal Line



SCHEMATIC DIAGRAM - 16

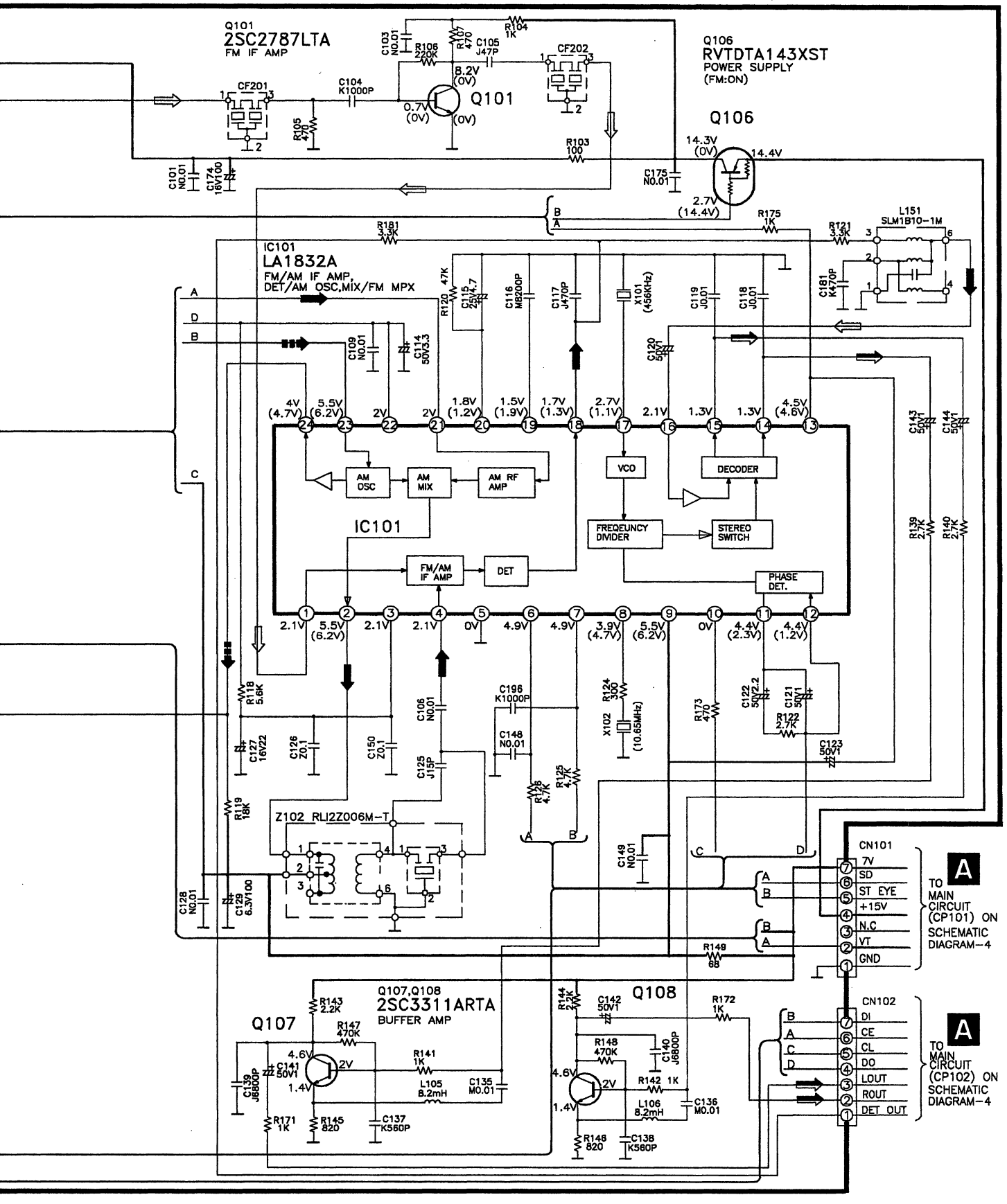
C TUNER CIRCUIT
(P.C.B BOARD ON PAGE 48)

: FM Signal Line
: AM Signal Line
: +B Line
: FM OSC Signal Line
: AM OSC Signal Line



SCHEMATIC DIAGRAM - 17

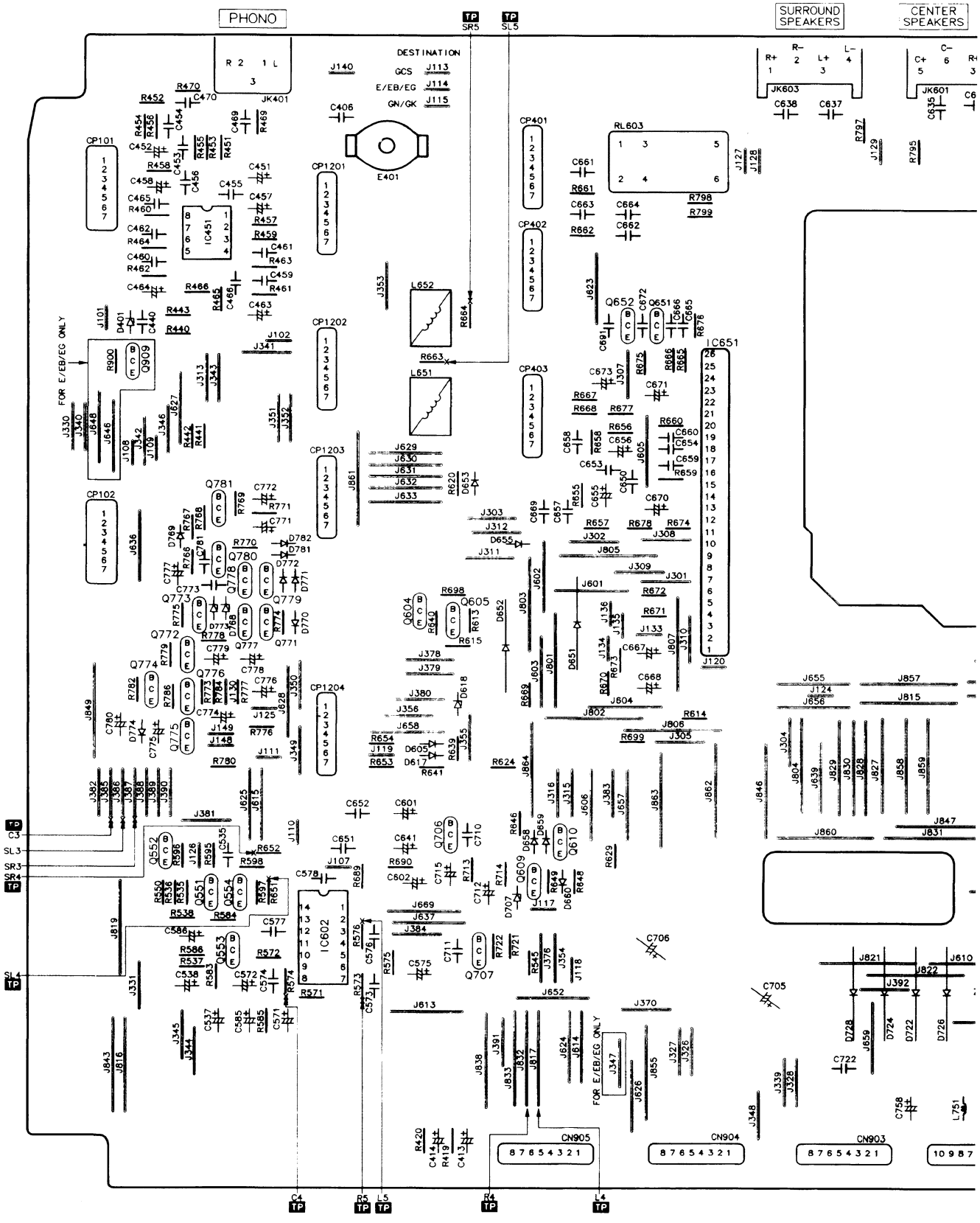
: +B Line
: FM Signal Line
: AM Signal Line
: FM OSC Signal Line
: AM OSC Signal Line
: FM/AM Signal Line



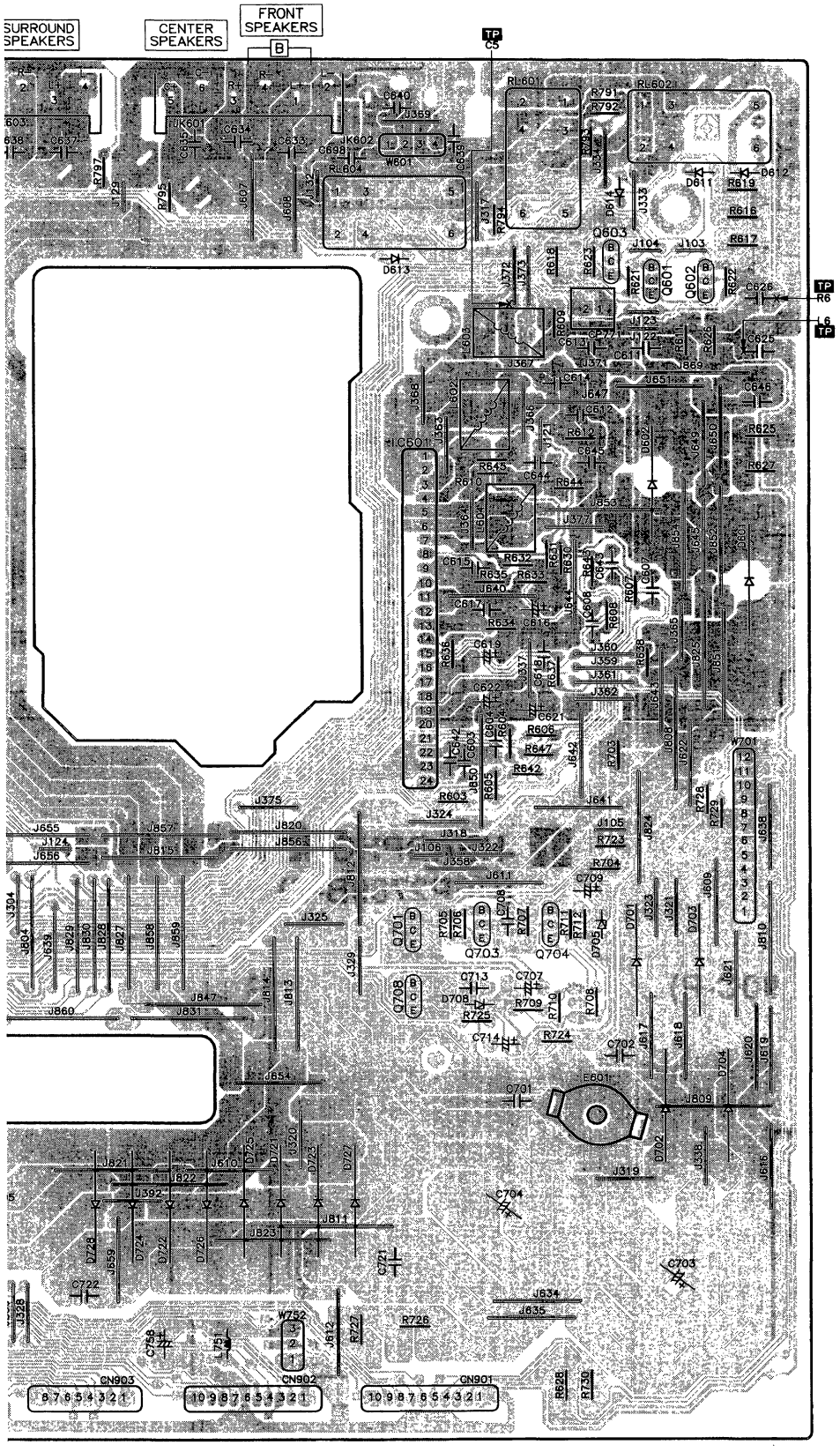
Printed Circuit Board (This printed circuit board diagram may be modified at any time with the developement of new technology.)

A B C D E F G H

A MAIN P.C.B. (REP2788B-M)



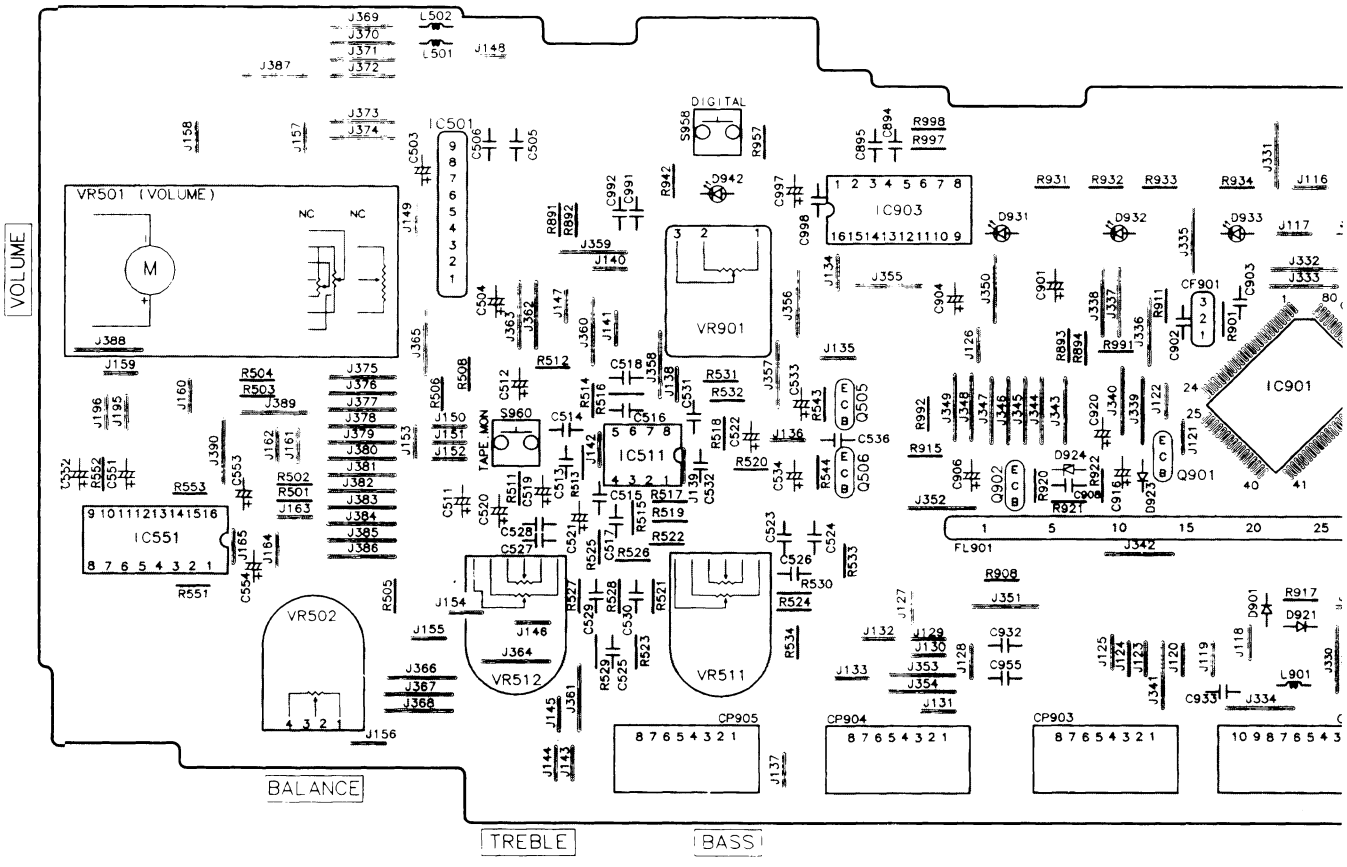
G H I J K L M



Electrical Parts Locations Table

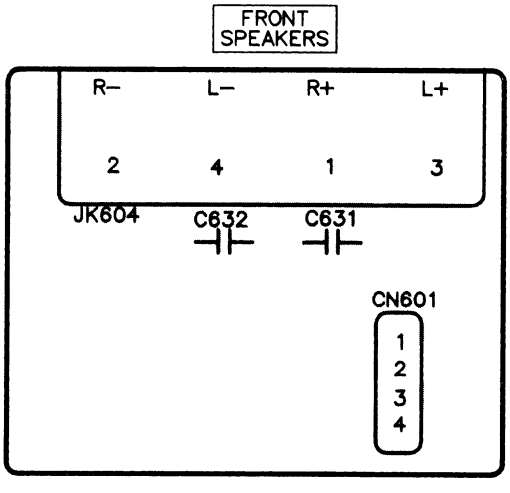
Ref. No	Loc. No	Ref. No	Loc. No
CN901	I9	E401	D2
CN902	H9	E601	I7
CN903	G9	IC451	B3
CN904	F9	IC601	I4
CN905	E9	IC602	C8
CP101	B2	IC651	F4
CP102	B5	JK401	C2
CP1201	C2	JK601	H2
CP1202	C3	JK602	I2
CP1203	C4	JK603	F2
CP1204	C6	L602	I3
CP401	E2	L603	I3
CP402	E3	L604	I4
CP403	E4	L651	D4
CP771	J3	L652	D3
D401	B3	L751	H9
D601	K4	Q551	B7
D602	J4	Q552	B7
D605	D6	Q553	C8
D611	K2	Q554	C7
D612	K2	Q601	J3
D613	I2	Q602	K3
D614	J2	Q603	I2
D617	D7	Q604	D5
D618	D6	Q605	D6
D651	E6	Q609	E7
D652	D6	Q610	E7
D653	D4	Q651	F3
D655	E5	Q652	E3
D658	E7	Q701	I6
D659	E7	Q703	I6
D660	E7	Q704	J6
D701	J7	Q705	L7
D702	J8	Q706	D7
D703	K7	Q707	D8
D704	K8	Q708	I7
D705	J6	Q771	C6
D707	E8	Q772	B6
D708	I7	Q773	B6
D721	H8	Q774	B6
D722	G8	Q775	B6
D723	H8	Q776	B6
D724	G8	Q777	C6
D725	H8	Q778	B5
D726	H8	Q779	C5
D727	H8	Q780	C5
D728	G8	Q781	B5
D768	B6	Q909	B4
D769	B5	RL601	J2
D770	C6	RL602	J2
D771	C5	RL603	E2
D772	C5	RL604	H2
D773	B6	W601	I2
D774	B6	W701	K6
D781	C5	W752	H9
D782	C5		

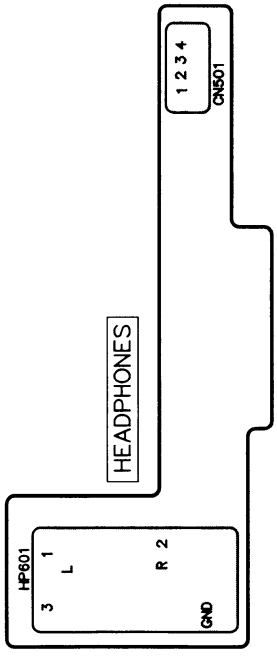
B PANEL P.C.B. (REP2789B-S)



I HEADPHONE JACK P.C.B. (REP2789B-S)

M SPEAKER P.C.B. (REP2790C-P) ... E/EG (REP2790D-P) ... EB

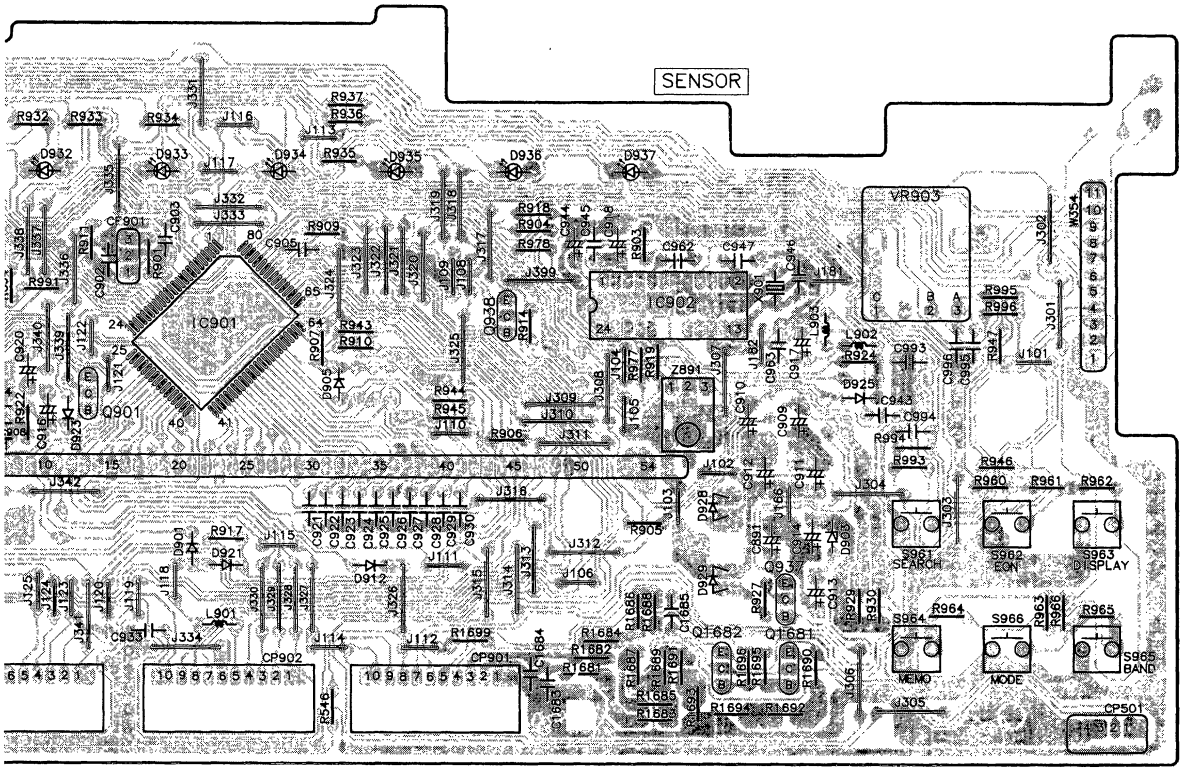




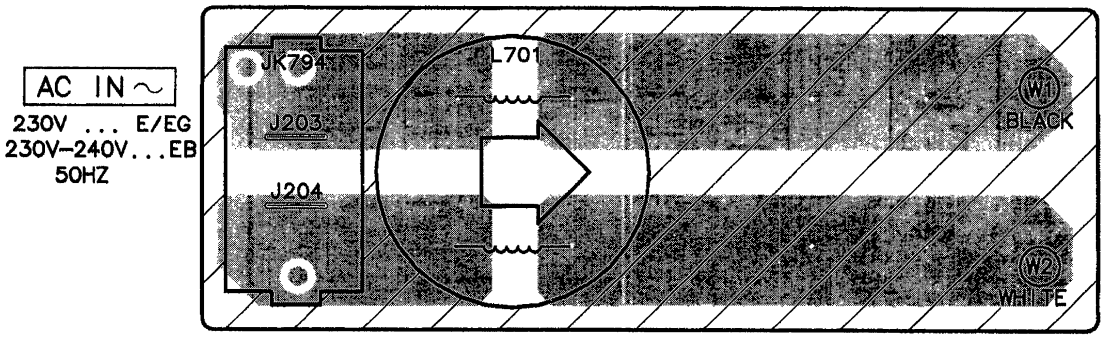
G H I J K L M

Electrical Parts Locations Table

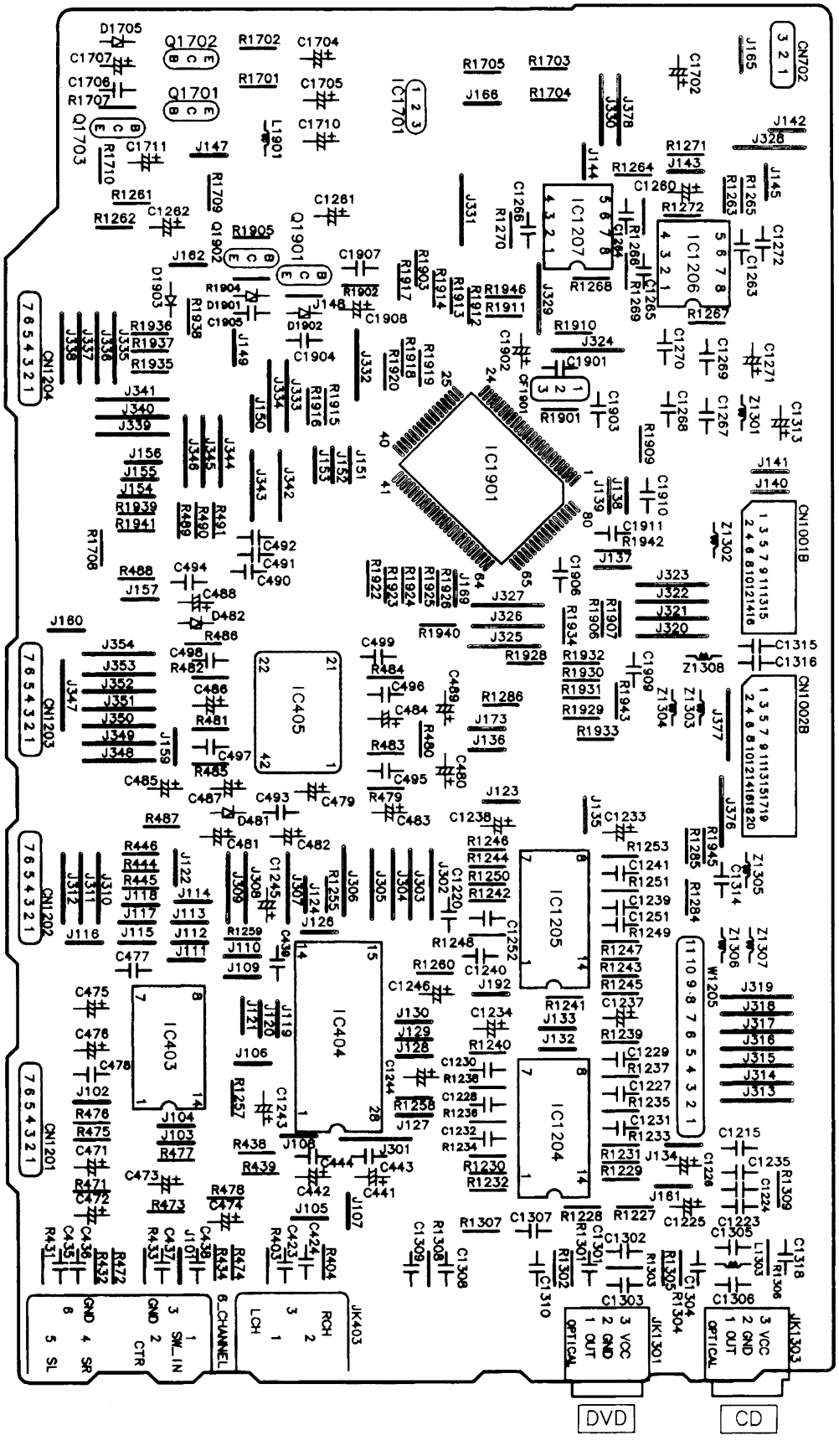
Ref. No	Loc. No
CF901	G3
CP501	L5
CP901	I5
CP902	H5
CP903	F5
CP904	E5
CP905	D5
D901	G5
D903	K4
D905	H4
D912	H5
D921	H5
D923	G4
D924	F4
D925	K4
D928	J4
D929	J5
D931	F2
D932	G2
D933	G2
D934	H2
D935	H2
D936	I2
D937	J2
D942	E2
FL901	F4
IC501	C2
IC901	G3
IC902	J3
IC903	E2
IC551	B4
IC511	D4
L501	C2
L502	C1
L901	H5
L902	K3
L903	K3
Q1681	K5
Q1682	J5
Q505	E3
Q506	E4
Q901	G4
Q902	F4
Q937	K5
Q938	I3
S958	D2
S960	D4
S961	K4
S962	L4
S963	L4
S964	K5
S965	L5
S966	L5
X901	J3
VR901	E3
VR903	K3
VR501	A2
VR502	B5
VR511	D5
VR512	C5
W354	L3
Z891	J4



G AC IN/OUT P.C.B. (REP2790C-P) ... E/EG (REP2790D-P) ... EB



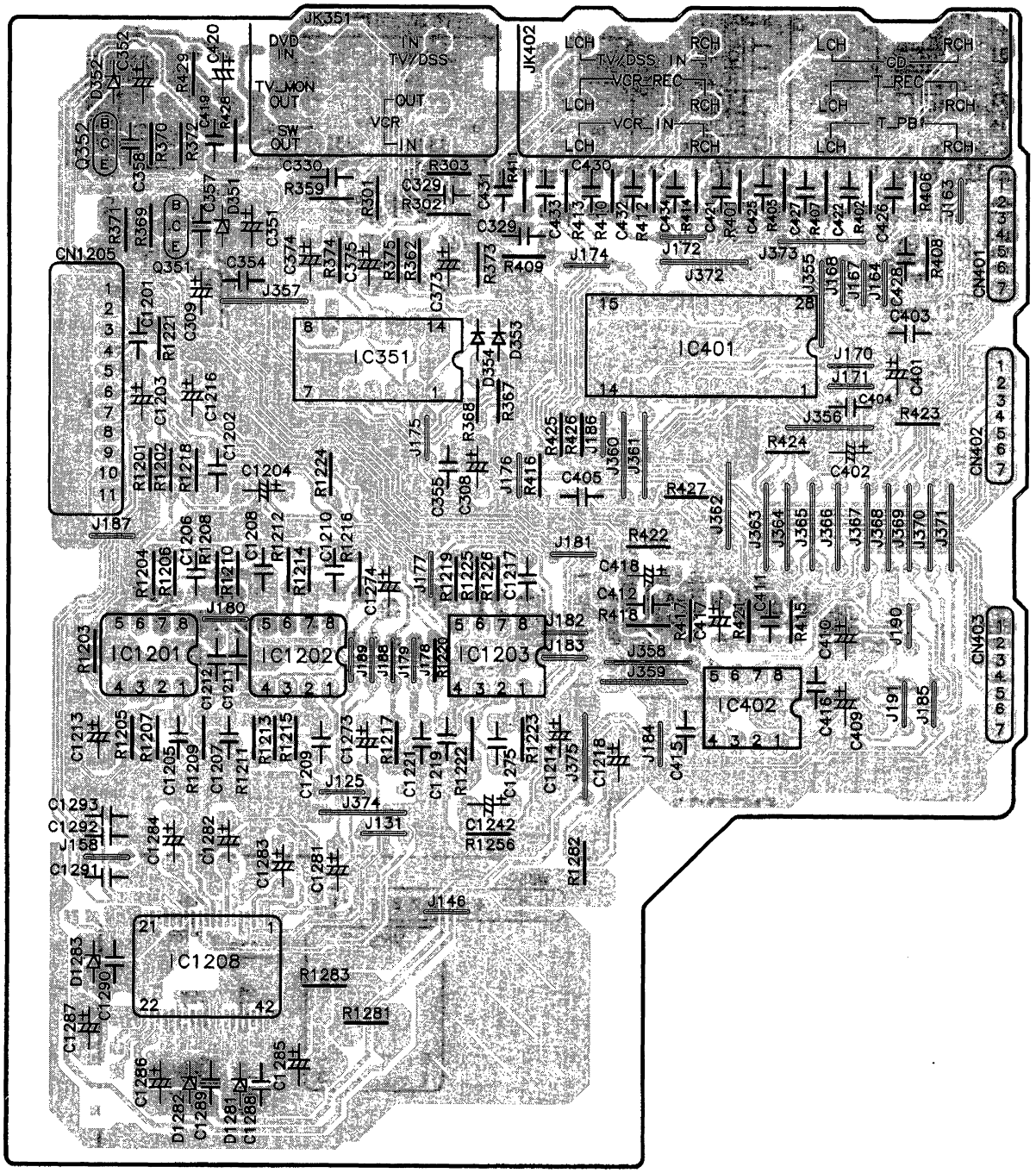
J DSP P.C.B. (REP2790C-P) ... E/EG (REP2790D-P) ... EB



Electrical Parts Locations Table

Ref. No	Loc. No
CF1901	D4
CN1001B	F5
CN1002B	F6
CN1201	A8
CN1202	A7
CN1203	A6
CN1204	A3
CN702	F1
D1705	B1
D1901	B3
D1902	C3
D1903	B3
D1904	E3
D481	B6
D482	B5
IC1204	D8
IC1205	D7
IC1206	E3
IC1207	D3
IC1701	D2
IC1901	D4
IC403	B8
IC404	C8
IC405	C6
JK1301	E10
JK1302	E10
JK1303	F10
JK403	C10
L1303	F10
L1901	C2
Q1701	B2
Q1702	B1
Q1703	B2
Q1901	C3
Q1902	B3
W1205	E8
Z1301	F4
Z1302	F5
Z1303	E6
Z1304	E6
Z1305	F7
Z1306	E7
Z1307	F7
Z1308	E5

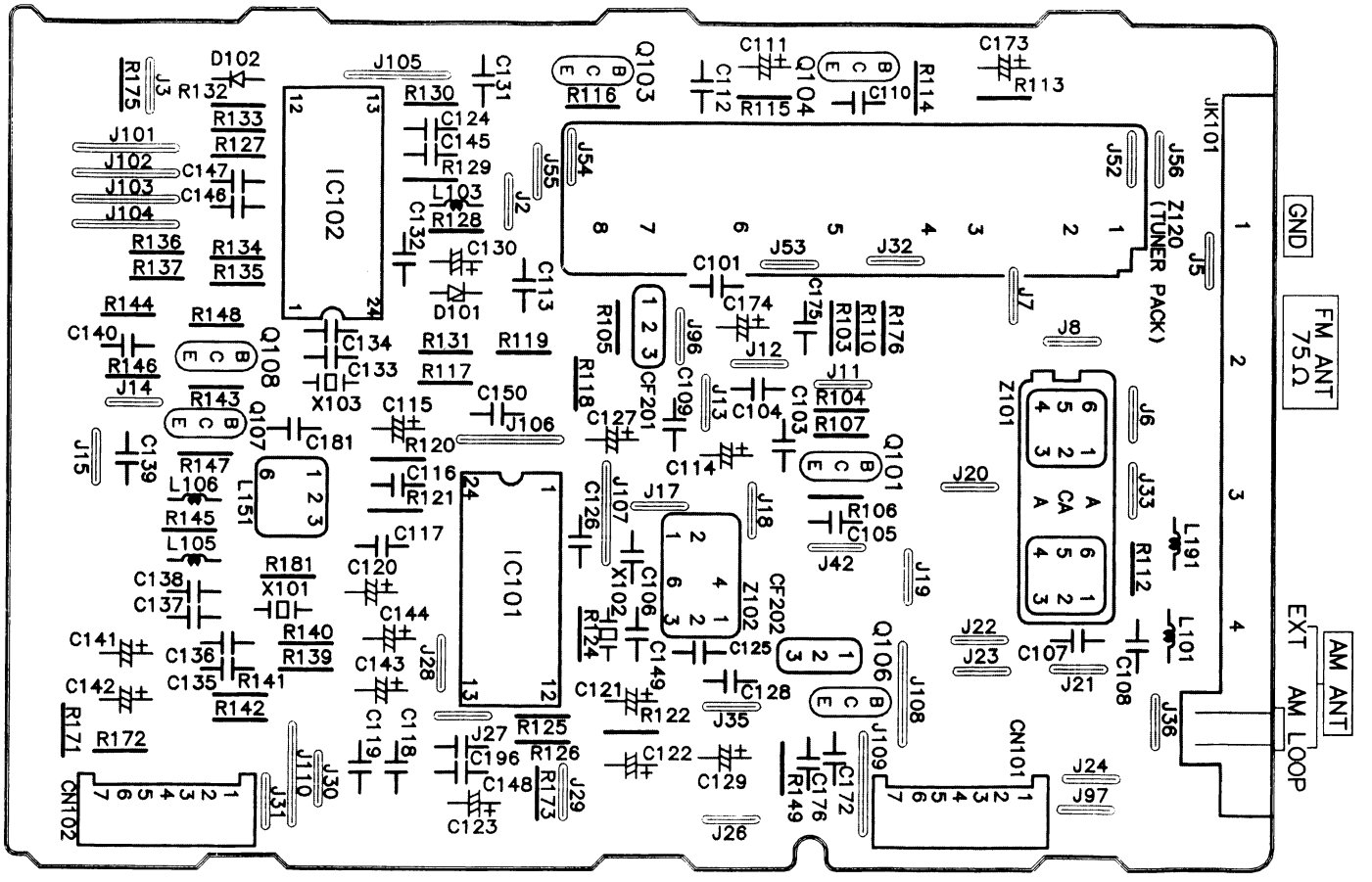
K PRO LOGIC P.C.B. (REP2790C-P) ... E/EG (REP2790D-P) ... EB



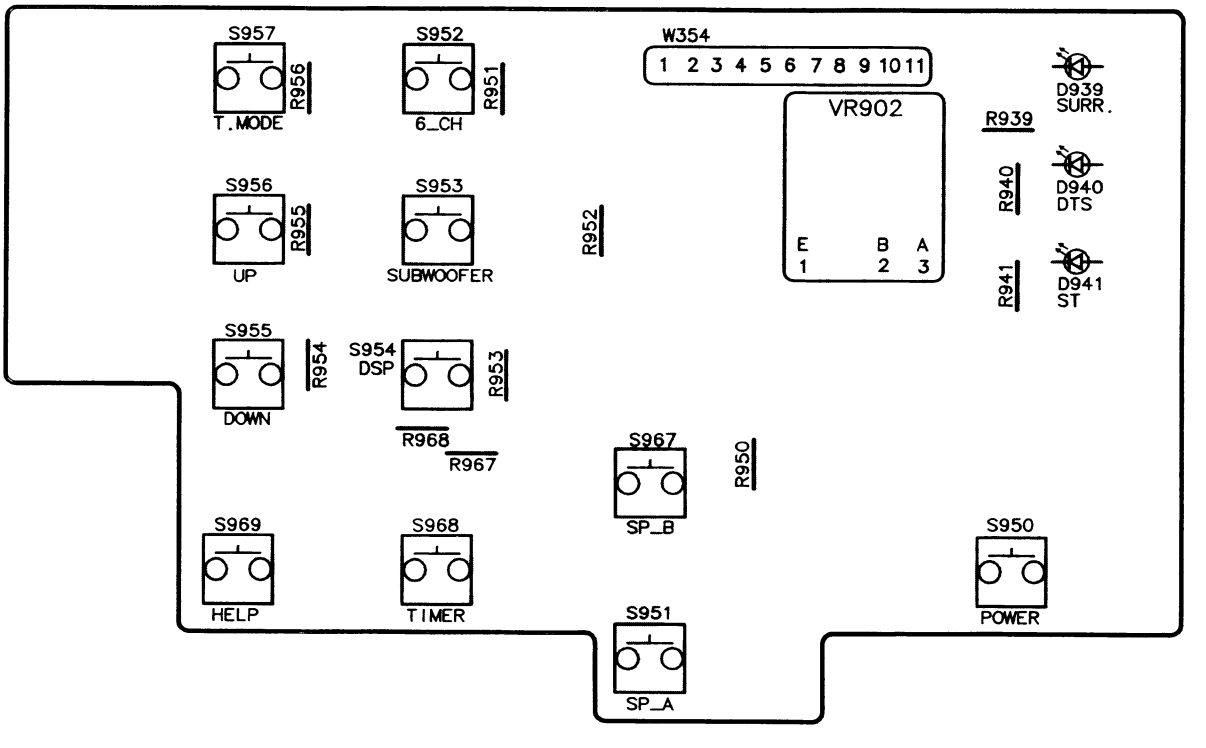
Electrical Parts Locations Table

Ref. No	Loc. No
CN1205	A3
CN401	G3
CN402	G4
CN403	G6
D1281	B8
D1282	B8
D1283	A7
D351	B2
D352	A2
D353	D3
D354	D3
IC1201	B5
IC1202	C5
IC1203	D5
IC1208	B7
IC351	C3
IC401	E3
IC402	E6
JK351	C2
JK402	F2
Q351	B3
Q352	A2

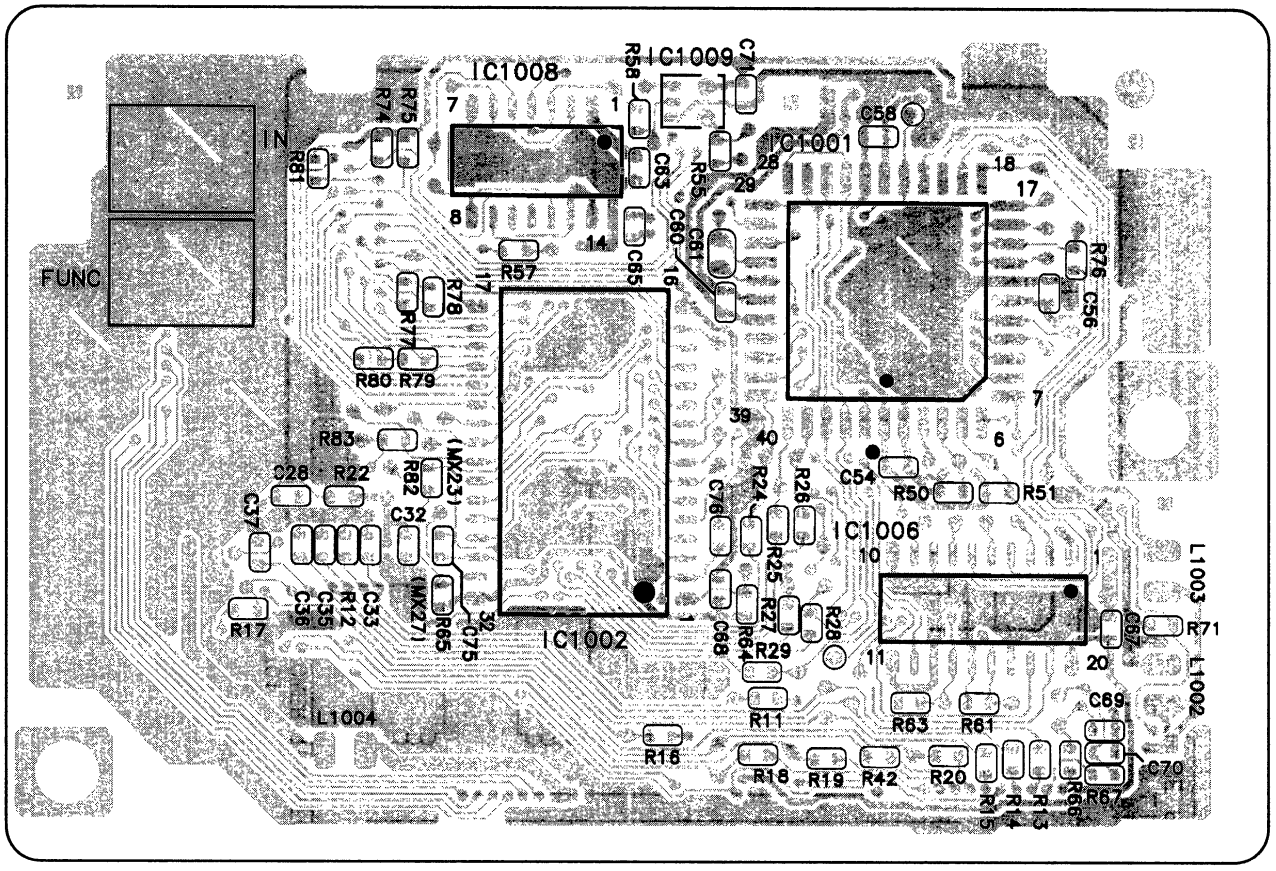
C TUNER P.C.B. (REP2254C-T)

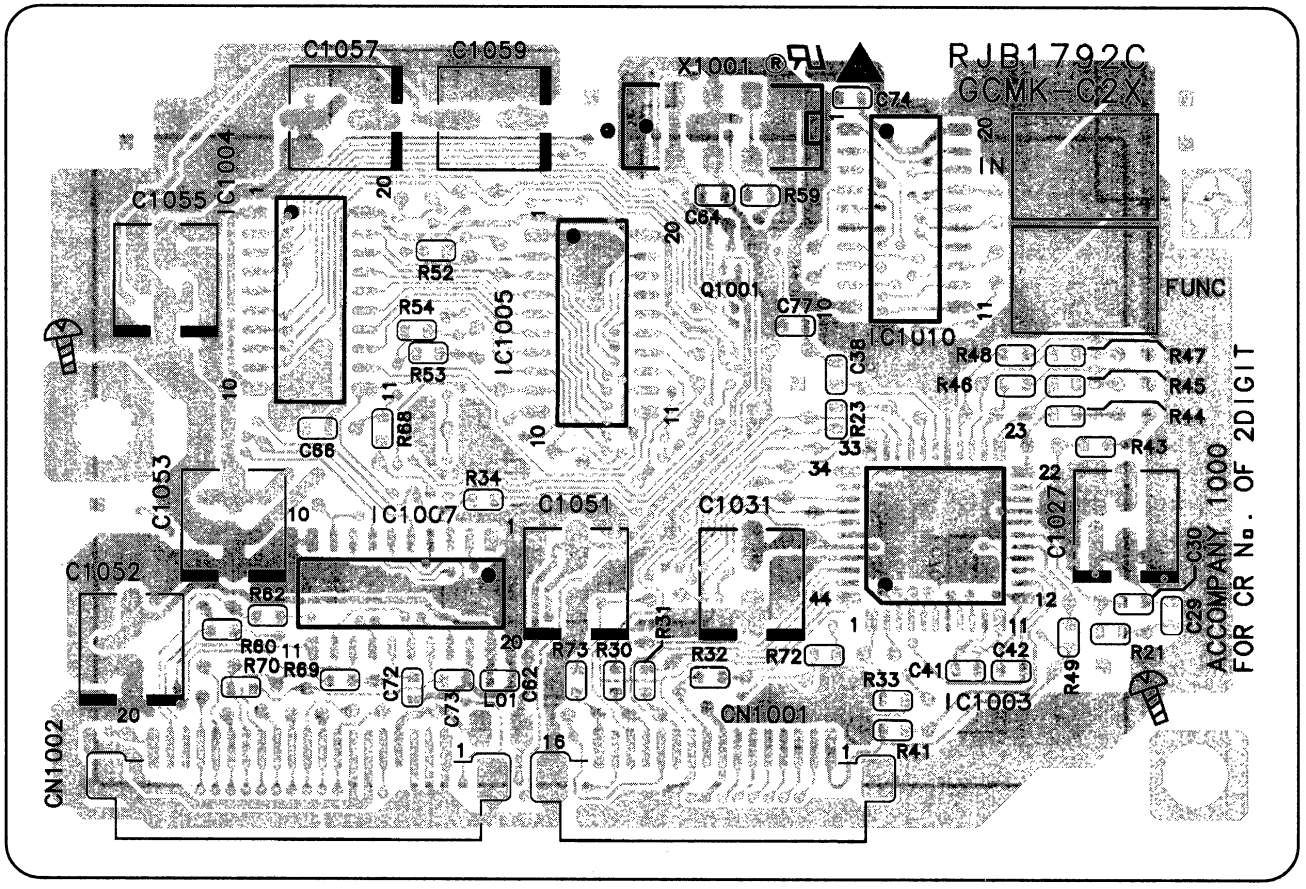


H OPERATION P.C.B. (REP2789B-S)

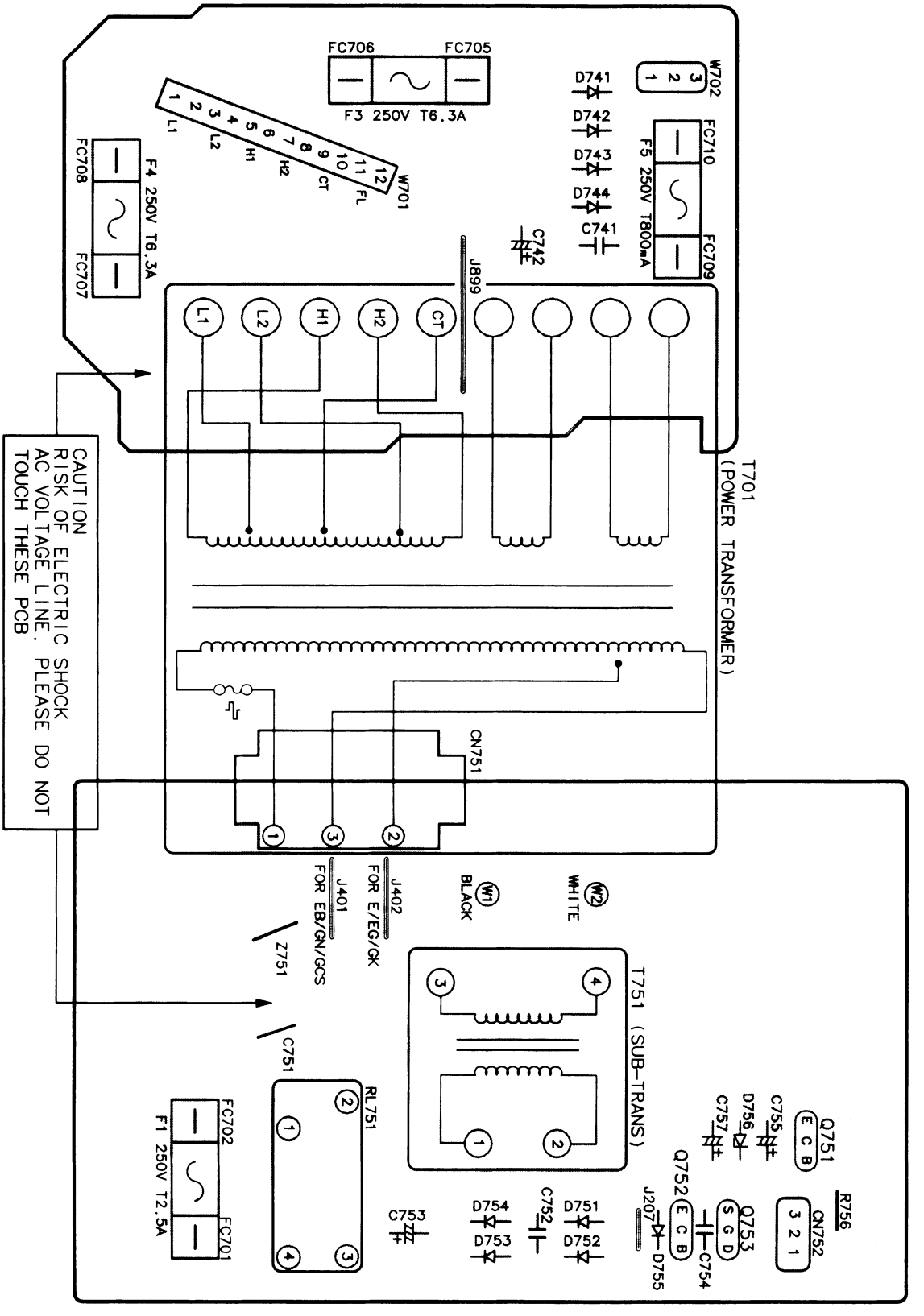


L DTS MODULE P.C.B. (REP2703B-T)



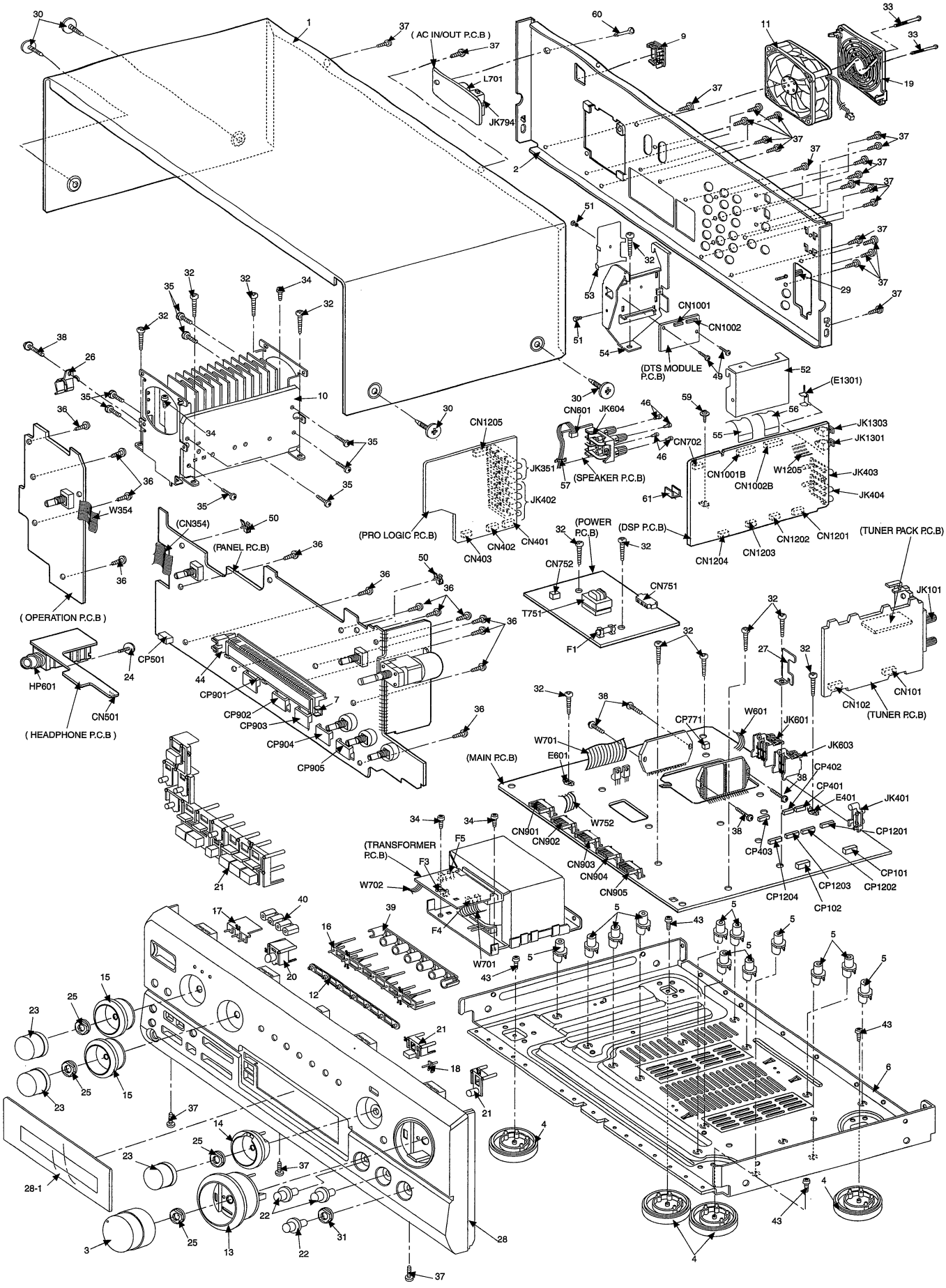


F TRANSFORMER P.C.B. (REP2788B-M)



E POWER P.C.B. (REP2790C-P) ... E/EG (REP2790D-P) ... EB

■ Cabinet Parts Location



■ Replacement Parts List

Notes: * Important safety notice :
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
* The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indication can be used for all areas.
* [M] in Remarks column indicates parts that are supplied by **MESA**.

Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RKM0375-K	TOP CABINET	[M]
2	RGR0284B-A	REAR PANEL	[M] EG E
2	RGR0284B-B	REAR PANEL	[M]EB
3	RGW0278-K	VOLUME KNOB	[M]
4	RKA0079-A	LEG UNIT	[M]
5	RKQ0089-J	PCB HOLDER	[M]
6	RMK0350-3	BOTTOM CHASSIS	[M]
7	RMN0372A	FL HOLDER	[M]
9	SJS9231A	A/C INLET COVER	[M]
10	RXX0194	HEAT SINK UNIT	[M]
11	REM0080	FAN UNIT	[M]
12	RGK0992-N	LIGHT GUIDE RING	[M]
13	RGK0993-N	VOLUME RING	[M]
14	RGK0994-N	SELECTOR RING	[M]
15	RGK0995-N	PRO LOGIC RING	[M]
16	RGL0401-Q	LIGHT GUIDE	[M]
17	RGL0402-Q	P/L LIGHT GUIDE	[M]
18	RGL0403-Q	6CH LIGHT GUIDE	[M]
19	RGQ0231-K	FAN COVER	[M]
20	RGU1616-K	HELP BUTTON	[M]
21	RGU1617E-K	MODE BUTTON	[M]
22	RGW0279-K	TONE KNOB	[M]
23	RGW0280-K	SELECTOR KNOB	[M]
24	RHD26016	SCREW	[M]
25	RHN90001	M9 NUT	[M]
26	RMC0158-S	TRANSISTOR HOLDER	[M]
27	RMQ0709	TUNER PCB BRACKET	[M]
28	RFKGADX930EK	FRONT PANEL ASS'Y	[M]
28-1	RKW0533F-Q	F/L WINDOW	[M]
29	SNE2123	EARTH TERMINAL	[M]
30	SNE2129-1	SCREW (CABINET)	[M]
31	SNE4021-1	M8 NUT	[M]
32	XTB3+20JFZ	SCREW	[M]
33	XTB3+35JFZ	SCREW (FAN)	[M]
34	XTB3+8FFZ	SCREW	[M]
35	XTB3+8JFZ	SCREW	[M]
36	XTBS26+10J	SCREW	[M]
37	XTBS3+8JFZ1	SCREW	[M]
38	XTW3+15T	SCREW	[M]
39	RMV0158	SEL LED COVER	[M]
40	RMV0159	P-L LED COVER	[M]
43	XTB3+6G	SCREW (FOOT)	[M]
44	RMN0502	LED HOLDER	[M]
46	RMR1165-K	SPEAKER COVER	[M]
49	XYN26+C6	SCREW	[M]
50	SHRD163	WIRE CLAMPER	[M]
51	SHR9112	PLASTIC RIVET	[M]
52	RSC0528	SHIELD CASE	[M]
53	RSC0529	SHIELD PLATE	[M]
54	RMA1232	PCB ANGLE	[M]
55	REE0785A	FFC WIRE	[M]
56	REE0786A	FFC WIRE	[M]
57	SHR301	WIRE CRAMPER	[M]
59	XYN3+F8	SCREW	[M]
60	RMR0669-C	CARD SPACER	[M]
61	SMY944	HEAT SINK	[M]
		INTEGRATED CIRCUITS	
IC101	LA1832A	IC, IF/MPX	[M]
IC102	LC7218	IC, PLL	[M]
IC351	NJM2279D	IC, VIDEO SELECTOR	[M]
IC401	TC9163AN	IC, SELECTOR	[M]
IC402	NJM4580DD	IC, OP AMP	[M]
IC403	NJM2060D	IC, OP AMP	[M]
IC404	TC9162AN	IC, SELECTOR	[M]
IC405	M62444FPE1	IC, 4 CH	[M]
IC451	AN6558F	IC, OP AMP	[M]
IC501	BA6218	IC, MOTOR DRIVER	[M]
IC511	NJM4580DD	IC, OP AMP	[M]
IC551	TC9214AP	IC, SELECTOR	[M]
IC601	RSN310R36-P	IC, HIC	[M] ⚠
IC602	NJM2060D	IC, OP AMP	[M]
IC651	RSN3305-P	IC, HIC	[M] ⚠
IC901	M38B57M6127F	IC, MICOM	[M]
IC902	LC72720N	IC, RDS	[M]
IC903	BU2090A	IC, EXPENDER	[M]
IC1001	CS4926-CL	IC, AC3	[M]
IC1002	MX23C4000MC3	IC, MEMORY	[M]
IC1003	CS4226-KQG	IC, DIR/DAC/VOL	[M]
IC1004	TC74VHC574FL	IC, OCTAL BUS BUFFER	[M]
IC1005	TC74VHC574FL	IC, OCTAL BUS BUFFER	[M]
IC1006	TC74VHC244FL	IC, OCTAL BUS SUFFER	[M]
IC1007	TC74VHC244FL	IC, OCTAL BUS BUFFER	[M]
IC1008	TC74VHC74FEL	IC, OCTAL BUS SUFFER	[M]
IC1009	TC7SHU04F85L	IC, REGULATOR	[M] ⚠
IC1010	TC74VHC244FL	IC, OCTAL BUS BUFFER	[M]
IC1201	NJM4580DD	IC, OP AMP	[M]
IC1202	NJM4580DD	IC, OP AMP	[M]
IC1203	NJM4580DD	IC, OP AMP	[M]
IC1204	NJM2060D	IC, OP AMP	[M]
IC1205	NJM2060D	IC, OP AMP	[M]
IC1206	NJM2115D	IC, OP AMP	[M]
IC1207	NJM2115D	IC, OP AMP	[M]
IC1208	M62444FPE1	IC, 4 CH	[M]
IC1701	BA033T	IC, 3.3V REGULATOR	[M] ⚠
IC1901	M38B53M4059F	IC, MICOM	[M]
		TRANSISTORS	
Q101	2SC2787LTA	TRANSISTOR	[M]
Q103	2SC2785FETA	TRANSISTOR	[M]
Q104	2SC2785FETA	TRANSISTOR	[M]
Q106	RVTDTA143XST	TRANSISTOR	[M]
Q107	2SC3311ARTA	TRANSISTOR	[M]
Q108	2SC3311ARTA	TRANSISTOR	[M]
Q351	2SD592AQSTA	TRANSISTOR	[M] ⚠
Q352	2SB621AQSTA	TRANSISTOR	[M] ⚠
Q505	2SD1915FTA	TRANSISTOR	[M]
Q506	2SD1915FTA	TRANSISTOR	[M]
Q551	2SD1915FTA	TRANSISTOR	[M]
Q552	2SD1915FTA	TRANSISTOR	[M]
Q553	2SD1915FTA	TRANSISTOR	[M]
Q554	2SD1915FTA	TRANSISTOR	[M]
Q601	RVTDTA143XST	TRANSISTOR	[M]

Ref No.	Part No.	Part Name & Description	Remarks
Q602	RVTDTA143XST	TRANSISTOR	[M]
Q603	RVTDTA143XST	TRANSISTOR	[M]
Q604	RVTDTA114EST	TRANSISTOR	[M]
Q605	RVTDTA114EST	TRANSISTOR	[M] ⚠
Q609	RVTDTC114EST	TRANSISTOR	[M]
Q610	RVTDTC114TST	TRANSISTOR	[M]
Q651	RVTDTA143XST	TRANSISTOR	[M]
Q652	RVTDTA143XST	TRANSISTOR	[M]
Q701	2SD2374PQAU	TRANSISTOR	[M] ⚠
Q703	2SC1740SSTA	TRANSISTOR	[M] ⚠
Q704	2SC1740SSTA	TRANSISTOR	[M] ⚠
Q706	2SC3940AQSTA	TRANSISTOR	[M]
Q707	2SA1534AQRTA	TRANSISTOR	[M] ⚠
Q708	2SB1548PQAU	TRANSISTOR	[M] ⚠
Q751	RVTDTC143XST	TRANSISTOR	[M]
Q752	2SC3940AQSTA	TRANSISTOR	[M] ⚠
Q753	2SK2880CTA	TRANSISTOR	[M] ⚠
Q771	2SA933SSTA	TRANSISTOR	[M]
Q772	2SC1740SSTA	TRANSISTOR	[M]
Q773	2SB621AQSTA	TRANSISTOR	[M]
Q774	RVTDTA113ZST	TRANSISTOR	[M]
Q775	RVTDTA114EST	TRANSISTOR	[M]
Q776	2SC1740SSTA	TRANSISTOR	[M]
Q777	2SA933SSTA	TRANSISTOR	[M]
Q778	2SA933SSTA	TRANSISTOR	[M]
Q779	2SA933SSTA	TRANSISTOR	[M]
Q780	2SA933SSTA	TRANSISTOR	[M]
Q781	2SC1740SSTA	TRANSISTOR	[M]
Q901	RVTDTC114YST	TRANSISTOR	[M]
Q902	2SA933SSTA	TRANSISTOR	[M] ⚠
Q909	2SC1740SSTA	TRANSISTOR	[M]
Q937	RVTDTA114YST	TRANSISTOR	[M]
Q938	RVTDTC114YST	TRANSISTOR	[M]
Q1681	2SD1915FTA	TRANSISTOR	[M]
Q1682	2SD1915FTA	TRANSISTOR	[M]
Q1701	2SD2137PQTA	TRANSISTOR	[M] ⚠
Q1702	2SD2137PQTA	TRANSISTOR	[M] ⚠
Q1703	2SC1740SSTA	TRANSISTOR	[M] ⚠
Q1901	RVTDTC114YST	TRANSISTOR	[M]
Q1902	2SA933SSTA	TRANSISTOR	[M]
		DIODES	
D101	MTZJ5R1BTA	DIODE	[M] ⚠
D102	MA165TA	DIODE	[M]
D351	MTZJ5R6BTA	DIODE	[M] ⚠
D352	MTZJ5R6BTA	DIODE	[M] ⚠
D353	RVD1SS133TA	DIODE	[M]

Ref No.	Part No.	Part Name & Description	Remarks
D354	RVD1SS133TA	DIODE	[M]
D401	MTZJ7R5CTA	DIODE	[M]
D481	MTZJ6R8BTA	DIODE	[M]
D482	MTZJ6R8BTA	DIODE	[M]
D601	RK306LFU1	DIODE	[M]
D602	RK306LFU1	DIODE	[M]
D605	RVD1SS133TA	DIODE	[M]
D611	RVD1SS133TA	DIODE	[M]
D612	RVD1SS133TA	DIODE	[M]
D613	RVD1SS133TA	DIODE	[M]
D614	RVD1SS133TA	DIODE	[M]
D617	RVD1SS133TA	DIODE	[M]
D618	MTZJ7R5CTA	DIODE	[M] ⚠
D651	RK306LFU1	DIODE	[M]
D652	RK306LFU1	DIODE	[M]
D653	RVD1SS133TA	DIODE	[M]
D655	RVD1SS133TA	DIODE	[M]
D658	RVD1SS133TA	DIODE	[M]
D659	RVD1SS133TA	DIODE	[M]
D660	RVD1SS133TA	DIODE	[M]
D701	1N5402BM21	DIODE	[M] ⚠
D702	1N5402BM21	DIODE	[M] ⚠
D703	1N5402BM21	DIODE	[M] ⚠
D704	1N5402BM21	DIODE	[M] ⚠
D705	MTZJ6R2BTA	DIODE	[M] ⚠
D707	MTZJ27DTA	DIODE	[M] ⚠
D708	MTZJ15CTA	DIODE	[M] ⚠
D721	1N5402BM21	DIODE	[M] ⚠
D722	1N5402BM21	DIODE	[M] ⚠
D723	1N5402BM21	DIODE	[M] ⚠
D724	1N5402BM21	DIODE	[M] ⚠
D725	1N5402BM21	DIODE	[M] ⚠
D726	1N5402BM21	DIODE	[M] ⚠
D727	1N5402BM21	DIODE	[M] ⚠
D728	1N5402BM21	DIODE	[M] ⚠
D741	1SR35400V	DIODE	[M] ⚠
D742	1SR35400V	DIODE	[M] ⚠
D743	1SR35400V	DIODE	[M] ⚠
D744	1SR35400V	DIODE	[M] ⚠
D751	1SR35400V	DIODE	[M] ⚠
D752	1SR35400V	DIODE	[M] ⚠
D753	1SR35400V	DIODE	[M] ⚠
D754	1SR35400V	DIODE	[M] ⚠
D755	RVD1SS133TA	DIODE	[M]
D756	MTZJ6R8BTA	DIODE	[M] ⚠
D768	MTZJ3R3ATA	DIODE	[M]
D769	RVD1SS133TA	DIODE	[M]
D770	RVD1SS133TA	DIODE	[M]

Ref No.	Part No.	Part Name & Description	Remarks
D771	MA700ATA	DIODE	[M]
D772	MA700ATA	DIODE	[M]
D773	MTZJ8R2CTA	DIODE	[M]
D774	RVD1SS133TA	DIODE	[M]
D781	MA700ATA	DIODE	[M]
D782	MA700ATA	DIODE	[M]
D901	1SS291TA	DIODE	[M]
D903	MTZJ4R7BTA	DIODE	[M]
D909	MA167ATA	DIODE	[M]
D912	RVD1SS133TA	DIODE	[M]
D921	RVD1SS133TA	DIODE	[M]
D923	RVD1SS133TA	DIODE	[M]
D924	MTZJ3R9ATA	DIODE	[M] ⚠
D925	RVD1SS133TA	DIODE	[M]
D928	LN446YPH	DIODE	[M]
D929	LN846RPH	DIODE	[M]
D931	SLR325VCT31	DIODE	[M]
D932	SLR325VCT31	DIODE	[M]
D933	SLR325VCT31	DIODE	[M]
D934	SLR325VCT31	DIODE	[M]
D935	SLR325VCT31	DIODE	[M]
D936	SLR325VCT31	DIODE	[M]
D937	SLR325VCT31	DIODE	[M]
D939	SLR325VCT31	DIODE	[M]
D940	SLR325VCT31	DIODE	[M]
D941	SLR325VCT31	DIODE	[M]
D942	SLR325MCT31	DIODE	[M]
D1281	MTZJ6R8BTA	DIODE	[M]
D1282	MTZJ6R8BTA	DIODE	[M]
D1283	MTZJ5R1BTA	DIODE	[M]
D1705	MTZJ6R2CTA	DIODE	[M] ⚠
D1901	MTZJ3R9ATA	DIODE	[M]
D1902	RVD1SS133TA	DIODE	[M]
D1903	RVD1SS133TA	DIODE	[M]
		VARIABLE RESISTORS	
VR501	EUWMRL026993	VR, VOLUME	[M]
VR502	EWC0YAF20G15	VR, BALANCE CONTROL	[M]
VR511	EWC1XA020C15	VR, TONE CONTROL	[M]
VR512	EWC1XA020C15	VR, TONE CONTROL	[M]
VR901	EVQVBHFK112B	VR, BALANCE CONTROL	[M]
VR902	EVQVBHFK112B	VR, BALANCE CONTROL	[M]
VR903	EVQVBHFK112B	VR, BALANCE CONTROL	[M]

Ref No.	Part No.	Part Name & Description	Remarks
		SWITCHES	
S950	EVQ21405R	SW, POWER	[M]
S951	EVQ21405R	SW, SPEAKER A	[M]
S952	EVQ21405R	SW, DVD 6CH INPUT	[M]
S953	EVQ21405R	SW, SUB WOOFER	[M]
S954	EVQ21405R	SW, DISPLAY	[M]
S955	EVQ21405R	SW, DOWN	[M]
S956	EVQ21405R	SW, UP	[M]
S957	EVQ21405R	SW, T. MODE	[M]
S958	EVQ21405R	SW, DIGITAL	[M]
S960	EVQ21405R	SW, TAPE MONITOR	[M]
S961	EVQ21405R	SW, PTY SEARCH	[M]
S962	EVQ21405R	SW, EON	[M]
S963	EVQ21405R	SW, RDS DISPLAY	[M]
S964	EVQ21405R	SW, MEMORY	[M]
S965	EVQ21405R	SW, BAND	[M]
S966	EVQ21405R	SW, MODE	[M]
S967	EVQ21405R	SW, SPEAKER B	[M]
S968	EVQ21405R	SW, TIMER	[M]
S969	EVQ21405R	SW, HELP	[M]
		CONNECTORS	
CN101	RJU057W007	7P CONNECTOR	[M]
CN102	RJU057W007	7P CONNECTOR	[M]
CN401	RJU100W07	7P CONNECTOR	[M]
CN402	RJU100W07	7P CONNECTOR	[M]
CN403	RJU100W07	7P CONNECTOR	[M]
CN501	RJU100W04	4P CONNECTOR	[M]
CN601	RJS4T6ZA	4P CONNECTOR	[M]
CN702	RJS1A6603T1	3P TAPING CONNECTOR	[M]
CN751	SJS305-1	3P CONNECTOR	[M]
CN752	RJS1A6603T1	3P TAPING CONNECTOR	[M]
CN901	RJU003K010M1	10P B/B CONNECTOR	[M]
CN902	RJU003K010M1	10P B/B CONNECTOR	[M]
CN903	RJU003K008M1	BOAD IN CONNECTOR	[M]
CN904	RJU003K008M1	BOAD IN CONNECTOR	[M]
CN905	RJU003K008M1	BOAD IN CONNECTOR	[M]
CN1001	RJS2A4816T	16P CONNECTOR	[M]
CN1001B	RJS2A4216-F	16P CONNECTOR	[M]
CN1002	RJS2A4820T	20P CONNECTOR	[M]
CN1002B	RJS2A4220-F	20P CONNECTOR	[M]
CN1201	RJU100W07	7P CONNECTOR	[M]
CN1202	RJU100W07	7P CONNECTOR	[M]
CN1203	RJU100W07	7P CONNECTOR	[M]
CN1204	RJU100W07	7P CONNECTOR	[M]
CN1205	RJT029W011-1	EH CONNECTOR	[M]

Ref No.	Part No.	Part Name & Description	Remarks
CP101	RJT057W007-1	7P CONNECTOR	[M]
CP102	RJT057W007-1	7P CONNECTOR	[M]
CP401	RJT100W07	7P CONNECTOR	[M]
CP402	RJT100W07	7P CONNECTOR	[M]
CP403	RJT100W07	7P CONNECTOR	[M]
CP501	RJT100W04	4P CONNECTOR	[M]
CP771	SJT3213	CONNECTOR (FAN)	[M]
CP901	RJT003K010M1	10P CONNECTOR	[M]
CP902	RJT003K010M1	10P CONNECTOR	[M]
CP903	RJT003K008M1	8P CONNECTOR	[M]
CP904	RJT003K008M1	8P CONNECTOR	[M]
CP905	RJT003K008M1	8P CONNECTOR	[M]
CP1201	RJT100W07	7P CONNECTOR	[M]
CP1202	RJT100W07	7P CONNECTOR	[M]
CP1203	RJT100W07	7P CONNECTOR	[M]
CP1204	RJT100W07	7P CONNECTOR	[M]
		COILS & TRANSFORMERS	
L101	ELESN1R0MA	CHOKE COIL	[M]
L103	ELEXTR47MA9	CHOKE COIL	[M]
L105	RLQZB822KT-D	TAPING COIL	[M]
L106	RLQZB822KT-D	TAPING COIL	[M]
L151	SLM1B10-1M	A.B. FILTER	[M]
L191	ELESNR56MA	CHOKE COIL	[M]
L501	RLQZP1R0KT-Y	AXIAL COIL	[M]
L502	RLQZP1R0KT-Y	AXIAL COIL	[M]
L602	RLQYR73MW-E	CHOKE COIL	[M]
L603	RLQYR73MW-E	CHOKE COIL	[M]
L604	RLQYR73MW-E	CHOKE COIL	[M]
L651	RLQYR73MW-E	CHOKE COIL	[M]
L652	RLQYR73MW-E	CHOKE COIL	[M]
L701	RLQT801M-W	CHOKE COIL	[M] ⚠
L751	RLQB101KTA-Y	CHOKE COIL	[M]
L901	RLQB101KTA-Y	CHOKE COIL	[M]
L902	RLQZP101KT-Y	AXIAL COIL	[M]
L903	RLQZP101KT-Y	AXIAL COIL	[M]
L1001	RLQM2R2KT2-W	CHOKER COIL	[M]
L1002	RLQM2R2KT2-W	COIL	[M]
L1003	RLQM2R2KT2-W	COIL	[M]
L1004	RLQM2R2KT2-W	COIL	[M]
L1303	RLQZP1R0KT-Y	AXIAL COIL	[M]
L1901	RLQB101KTA-Y	CHOKE COIL	[M]
T701	RTP1Q5B006-V	POWER TRANSFORMER	[M] ⚠
T751	RTP1I5B003-V	SUB TRANSFORMER	[M] ⚠

Ref No.	Part No.	Part Name & Description	Remarks
		COMPONENT COMBINATION	
Z101	RLA2Z002M-T	AM ANT. COIL	[M]
Z102	RLI2Z006M-T	AM IFT	[M]
Z120	ENV17290G1Y	FM TUNER PACK	[M]
Z751	ERZV10V511CS	ZNR	[M] ⚠
Z891	RCD12042TE	REMOTE SENSOR	[M]
Z1301	BL02RN2R62T4	EMI BEAD CORE	[M]
Z1302	BL02RN2R62T4	EMI BEAD CORE	[M]
Z1303	BL02RN2R62T4	EMI BEAD CORE	[M]
Z1304	BL02RN2R62T4	EMI BEAD CORE	[M]
Z1305	BL02RN2R62T4	EMI BEAD CORE	[M]
Z1306	BL02RN2R62T4	EMI BEAD CORE	[M]
Z1307	BL02RN2R62T4	EMI BEAD CORE	[M]
Z1308	BL02RN2R62T4	EMI BEAD CORE	[M]
		CERAMIC FILTERS	
CF201	RLFFETNGD01L	CERAMIC CAPACITOR	[M]
CF202	RLFFETMGD01L	CERAMIC FILTER	[M]
CF901	RVBCST4R00MT	CERAMIC OSCILLATOR	[M]
CF1901	RVBCST4R00MT	CERAMIC OSCILLATOR	[M]
		RELAY	
RL601	RSY0013M-0	RELAY	[M] ⚠
RL602	RSY0013M-0	RELAY	[M] ⚠
RL603	RSY0013M-0	RELAY	[M] ⚠
RL604	RSY0013M-0	RELAY	[M] ⚠
RL751	RSY0041M-0	TV-5 PRIMARY RELAY	[M] ⚠
		OSCILLATORS	
X101	RSXZ456KM07M	CERAMIC OSCILLATOR	[M]
X102	RLFDGTD01I	FM REZONATOR	[M]
X103	RSXD7M20C01	CRYSTAL 7.2 MHZ	[M]
X901	RSXC4M33S02T	CRYSTAL 4.33 MHZ	[M]
X1001	RSXB49M1S02T	X'TAL OSC 49.152MHZ	[M]
		DISPLAY TUBE	
FL901	RSL0279-F	FL DISPLAY	[M]
		FUSES	
F1	XBA2C25TB0	FUSE	[M] ⚠
F3	XBA2C63TB0	FUSE	[M] ⚠
F4	XBA2C63TB0	FUSE	[M] ⚠

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Ref No.	Part No.	Part Name & Description	Remarks
F5	XBA2C08TB0	FUSE	[M] ⚠
		FUSE HOLDERS	
FC701	RJR0169T	FUSE HOLDER	[M]
FC702	RJR0169T	FUSE HOLDER	[M]
FC705	RJR0169T	FUSE HOLDER	[M]
FC706	RJR0169T	FUSE HOLDER	[M]
FC707	RJR0169T	FUSE HOLDER	[M]
FC708	RJR0169T	FUSE HOLDER	[M]
FC709	RJR0169T	FUSE HOLDER	[M]
FC710	RJR0169T	FUSE HOLDER	[M]
		JACKS	
HP601	RJJ63TA01	HP JACK	[M]
JK101	RJH4202-1	JK, ANT TERMINAL	[M]
JK351	RJH3601	JK, 6P RCA	[M]
JK401	SJF3068-7N	JK, RCA TERMINAL	[M]
JK402	RJH3001	JK, 12P RCA	[M]
JK403	SJF3068-7N	JK, RCA TERMINAL	[M]
JK404	SJF3069-17N	JK, RCA	[M]
JK601	RJH5601	JK, SPEAKER TERMINAL	[M]
JK603	RJR0054	JK, SPEAKER TERMINAL	[M]
JK604	RJH4410	JK, SPEAKER	[M]
JK794	SJS9231-1B	JK, AC INLET	[M] ⚠
JK1301	T0RX178A	JK, OPTICAL MODULE	[M]
JK1303	T0RX178A	JK, OPTICAL MODULE	[M]
		EARTH TERMINAL	
E401	SNE1004-2	EARTH TERMINAL	[M]
E601	SNE1004-2	EARTH TERMINAL	[M]
E1301	RMA1267	EARTH ANGLE	[M]
		WIRES	
W1	REE0889	WIRE	[M]
W2	REE0890	WIRE	[M]
W354	RWJ1811170KK	11P WIRE	[M]
W601	RWJ1804160KQ	SPK TERMINAL WIRE	[M]
W701	RWJ1812220KK	WIRE UNIT	[M]
W702	RWJ1803430KQ	3P WIRE	[M]
W752	RWJ1803290KQ	3P WIRE	[M]
W1205	REX0969	11P WIRE	[M]

■ Resistors & Capacitors

Notes : • Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors),etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
• The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indication can be used for all areas.
• [M] in Remarks column indicates parts that are supplied by **MESA**.
• Capacitor values are in microfarad (μF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
• Resistors values are in ohms, unless specified otherwise, 1k=1,000(OHM), 1M=1,000k(OHM)

Ref No.	Part No.	Values & Remarks
	RESISTORS	
R103	ERDS2TJ101T	100 1/4W [M]
R104	ERDS2TJ102T	1K 1/4W [M]
R105	ERDS2TJ471T	470 1/4W [M]
R106	ERDS2TJ224T	220K 1/4W [M]
R107	ERDS2TJ471T	470 1/4W [M]
R110	ERDS2TJ102T	1K 1/4W [M]
R112	ERDS2TJ104T	100K 1/4W [M]
R113	ERDS2TJ103T	10K 1/4W [M]
R114	ERDS2TJ562T	5.6K 1/4W [M]
R115	ERDS2TJ561T	560 1/4W [M]
R116	ERDS2TJ102T	1K 1/4W [M]
R117	ERDS2TJ473T	47K 1/4W [M]
R118	ERDS2TJ562T	5.6K 1/4W [M]
R119	ERDS2TJ183T	18K 1/4W [M]
R120	ERDS2TJ473T	47K 1/4W [M]
R121	ERDS2TJ332T	3.3K 1/4W [M]
R122	ERDS2TJ272T	2.7K 1/4W [M]
R124	ERDS2TJ301T	300 1/4W [M]
R125	ERDS2TJ472T	4.7K 1/4W [M]
R126	ERDS2TJ472T	4.7K 1/4W [M]
R127	ERDS2TJ103T	10K 1/4W [M]
R128	ERDS2TJ820T	82 1/4W [M]
R129	ERDS2TJ473T	47K 1/4W [M]
R130	ERDS2TJ102T	1K 1/4W [M]
R131	ERDS2TJ102T	1K 1/4W [M]
R132	ERDS2TJ103T	10K 1/4W [M]
R133	ERDS2TJ102T	1K 1/4W [M]
R134	ERDS2TJ102T	1K 1/4W [M]
R135	ERDS2TJ102T	1K 1/4W [M]
R136	ERDS2TJ102T	1K 1/4W [M]
R137	ERDS2TJ102T	1K 1/4W [M]
R139	ERDS2TJ272T	2.7K 1/4W [M]
R140	ERDS2TJ272T	2.7K 1/4W [M]
R141	ERDS2TJ102T	1K 1/4W [M]
R142	ERDS2TJ102T	1K 1/4W [M]
R143	ERDS2TJ222T	2.2K 1/4W [M]
R144	ERDS2TJ222T	2.2K 1/4W [M]
R145	ERDS2TJ821T	820 1/4W [M]
R146	ERDS2TJ821T	820 1/4W [M]
R147	ERDS2TJ474T	470K 1/4W [M]
R148	ERDS2TJ474T	470K 1/4W [M]
R149	ERDS2TJ680T	68 1/4W [M]
R171	ERDS2TJ102T	1K 1/4W [M]
R172	ERDS2TJ102T	1K 1/4W [M]
R173	ERDS2TJ471T	470 1/4W [M]
R175	ERDS2TJ102T	1K 1/4W [M]
R176	ERDS2TJ391T	390 1/4W [M]
R181	ERDS2TJ332T	3.3K 1/4W [M]
R301	ERDS2TJ750T	75 1/4W [M]
R302	ERDS2TJ750T	75 1/4W [M]
R303	ERDS2TJ750T	75 1/4W [M]
R359	ERDS2TJ750T	75 1/4W [M]
R362	ERDS2TJ750T	75 1/4W [M]
R367	ERDS2TJ102T	1K 1/4W [M]
R368	ERDS2TJ102T	1K 1/4W [M]
R369	ERDS2TJ182T	1.8K 1/4W [M]
R370	ERDS2TJ182T	1.8K 1/4W [M]
R371	ERD2FCVG220T	22 1/4W [M]
R372	ERD2FCVG220T	22 1/4W [M]
R373	ERDS2TJ103T	10K 1/4W [M]
R374	ERDS2TJ103T	10K 1/4W [M]
R375	ERDS2TJ103T	10K 1/4W [M]
R401	ERDS2TJ102T	1K 1/4W [M]
R402	ERDS2TJ102T	1K 1/4W [M]
R403	ERDS2TJ102T	1K 1/4W [M]
R404	ERDS2TJ102T	1K 1/4W [M]
R405	ERDS2TJ102T	1K 1/4W [M]
R406	ERDS2TJ102T	1K 1/4W [M]
R407	ERDS2TJ102T	1K 1/4W [M]
R408	ERDS2TJ102T	1K 1/4W [M]
R409	ERDS2TJ102T	1K 1/4W [M]
R410	ERDS2TJ102T	1K 1/4W [M]
R411	ERDS2TJ102T	1K 1/4W [M]
R412	ERDS2TJ102T	1K 1/4W [M]
R413	ERDS2TJ102T	1K 1/4W [M]
R414	ERDS2TJ102T	1K 1/4W [M]
R415	ERDS2TJ102T	1K 1/4W [M]
R416	ERDS2TJ102T	1K 1/4W [M]
R417	ERDS2TJ473T	47K 1/4W [M]
R418	ERDS2TJ473T	47K 1/4W [M]
R419	ERDS2TJ104T	100K 1/4W [M]
R420	ERDS2TJ104T	100K 1/4W [M]
R421	ERDS2TJ104T	100K 1/4W [M]
R422	ERDS2TJ104T	100K 1/4W [M]
R423	ERDS2TJ102T	1K 1/4W [M]
R424	ERDS2TJ102T	1K 1/4W [M]
R425	ERDS2TJ103T	10K 1/4W [M]
R426	ERDS2TJ103T	10K 1/4W [M]
R427	ERDS2TJ103T	10K 1/4W [M]
R428	ERDS2TJ102T	1K 1/4W [M]
R429	ERDS2TJ104T	100K 1/4W [M]
R431	ERDS2TJ562T	5.6K 1/4W [M]
R432	ERDS2TJ562T	5.6K 1/4W [M]
R433	ERDS2TJ562T	5.6K 1/4W [M]
R434	ERDS2TJ183T	18K 1/4W [M]
R438	ERDS2TJ102T	1K 1/4W [M]
R439	ERDS2TJ102T	1K 1/4W [M]
R440	ERDS1FVJ560T ⚠	56 1/2W [M]
R441	ERDS2TJ473T	47K 1/4W [M]
R442	ERDS2TJ473T	47K 1/4W [M]
R443	ERDS1FVJ560T ⚠	56 1/2W [M]
R444	ERDS2TJ103T	10K 1/4W [M]
R445	ERDS2TJ103T	10K 1/4W [M]
R446	ERDS2TJ103T	10K 1/4W [M]
R451	ERDS2TJ224T	220K 1/4W [M]
R452	ERDS2TJ224T	220K 1/4W [M]
R453	ERDS2TJ391T	390 1/4W [M]
R454	ERDS2TJ391T	390 1/4W [M]
R455	ERDS2TJ563T	56K 1/4W [M]
R456	ERDS2TJ563T	56K 1/4W [M]
R457	ERDS2TJ271T	270 1/4W [M]
R458	ERDS2TJ271T	270 1/4W [M]
R459	ERDS2TJ680T	68 1/4W [M]
R460	ERDS2TJ680T	68 1/4W [M]
R461	ERDS2TJ184T	180K 1/4W [M]
R462	ERDS2TJ184T	180K 1/4W [M]
R463	ERDS2TJ123T	12K 1/4W [M]
R464	ERDS2TJ123T	12K 1/4W [M]
R465	ERDS2TJ563T	56K 1/4W [M]
R466	ERDS2TJ563T	56K 1/4W [M]
R469	ERDS2TJ102T	1K 1/4W [M]
R470	ERDS2TJ102T	1K 1/4W [M]
R471	ERDS2TJ183T	18K 1/4W [M]
R472	ERDS2TJ183T	18K 1/4W [M]
R473	ERDS2TJ183T	18K 1/4W [M]
R474	ERDS2TJ103T	10K 1/4W [M]
R475	ERDS2TJ473T	47K 1/4W [M]
R476	ERDS2TJ473T	47K 1/4W [M]
R477	ERDS2TJ473T	47K 1/4W [M]
R478	ERDS2TJ473T	47K 1/4W [M]
R479	ERDS2TJ681T	680 1/4W [M]
R480	ERDS2TJ681T	680 1/4W [M]
R481	ERDS2TJ561T	560 1/4W [M]
R482	ERDS2TJ121T	120 1/4W [M]
R483	ERDS2TJ392T	3.9K 1/4W [M]
R484	ERDS2TJ392T	3.9K 1/4W [M]
R485	ERDS2TJ392T	3.9K 1/4W [M]
R486	ERDS2TJ392T	3.9K 1/4W [M]
R487	ERG1SJ181E ⚠	180 1W [M]
R488	ERG1SJ181E ⚠	180 1W [M]
R489	ERDS2TJ102T	1K 1/4W [M]
R490	ERDS2TJ102T	1K 1/4W [M]
R491	ERDS2TJ102T	1K 1/4W [M]
R501	ERDS2TJ222T	2.2K 1/4W [M]
R502	ERDS2TJ222T	2.2K 1/4W [M]
R503	ERDS2TJ103T	10K 1/4W [M]
R504	ERDS2TJ103T	10K 1/4W [M]
R505	ERDS2TJ222T	2.2K 1/4W [M]
R506	ERDS2TJ222T	2.2K 1/4W [M]
R508	ERDS1FVJ2R2T ⚠	2.2 1/2W [M]

Ref No.	Part No.	Values & Remarks
R511	ERDS2TJ471T	470 1/4W [M]
R512	ERDS2TJ471T	470 1/4W [M]
R513	ERDS2TJ474T	470K 1/4W [M]
R514	ERDS2TJ474T	470K 1/4W [M]
R515	ERDS2TJ474T	470K 1/4W [M]
R516	ERDS2TJ474T	470K 1/4W [M]
R517	ERDS2TJ182T	1.8K 1/4W [M]
R518	ERDS2TJ182T	1.8K 1/4W [M]
R519	ERDS2TJ332T	3.3K 1/4W [M]
R520	ERDS2TJ332T	3.3K 1/4W [M]
R521	ERDS2TJ223T	22K 1/4W [M]
R522	ERDS2TJ223T	22K 1/4W [M]
R523	ERDS2TJ392T	3.9K 1/4W [M]
R524	ERDS2TJ392T	3.9K 1/4W [M]
R525	ERDS2TJ222T	2.2K 1/4W [M]
R526	ERDS2TJ222T	2.2K 1/4W [M]
R527	ERDS2TJ821T	820 1/4W [M]
R528	ERDS2TJ821T	820 1/4W [M]
R529	ERDS2TJ273T	27K 1/4W [M]
R530	ERDS2TJ273T	27K 1/4W [M]
R531	ERDS2TJ332T	3.3K 1/4W [M]
R532	ERDS2TJ332T	3.3K 1/4W [M]
R533	ERDS2TJ473T	47K 1/4W [M]
R534	ERDS2TJ473T	47K 1/4W [M]
R535	ERDS2TJ272T	2.7K 1/4W [M]
R536	ERDS2TJ272T	2.7K 1/4W [M]
R537	ERDS2TJ103T	10K 1/4W [M]
R538	ERDS2TJ103T	10K 1/4W [M]
R543	ERDS2TJ102T	1K 1/4W [M]
R544	ERDS2TJ102T	1K 1/4W [M]
R545	ERDS2TJ684T	680K 1/4W [M]
R546	ERDS2TJ223T	22K 1/4W [M]
R550	ERDS2TJ822T	8.2K 1/4W [M]
R551	ERDS2TJ104T	100K 1/4W [M]
R552	ERDS2TJ104T	100K 1/4W [M]
R553	ERDS2TJ104T	100K 1/4W [M]
R571	ERDS2TJ681T	680 1/4W [M]
R572	ERDS2TJ681T	680 1/4W [M]
R573	ERDS2TJ272T	2.7K 1/4W [M]
R574	ERDS2TJ272T	2.7K 1/4W [M]
R575	ERDS2TJ681T	680 1/4W [M]
R576	ERDS2TJ272T	2.7K 1/4W [M]
R583	ERDS2TJ272T	2.7K 1/4W [M]
R584	ERDS2TJ272T	2.7K 1/4W [M]
R585	ERDS2TJ103T	10K 1/4W [M]
R586	ERDS2TJ103T	10K 1/4W [M]
R595	ERDS2TJ102T	1K 1/4W [M]
R596	ERDS2TJ102T	1K 1/4W [M]
R597	ERDS2TJ102T	1K 1/4W [M]
R598	ERDS2TJ102T	1K 1/4W [M]
R603	ERDS2TJ182T	1.8K 1/4W [M]
R604	ERDS2TJ182T	1.8K 1/4W [M]
R605	ERDS2TJ221T	220 1/4W [M]
R606	ERDS2TJ221T	220 1/4W [M]
R607	ERDS2TJ563T	56K 1/4W [M]
R608	ERDS2TJ563T	56K 1/4W [M]
R609	ERDS2TJ470T	47 1/4W [M]
R610	ERDS2TJ470T	47 1/4W [M]
R611	ERDS1FVJ100T ⚠	10 1/2W [M]
R612	ERDS1FVJ100T ⚠	10 1/2W [M]
R613	ERDS2TJ152T	1.5K 1/4W [M]
R614	ERDS2TJ152T	1.5K 1/4W [M]
R615	ERDS2TJ681T	680 1/4W [M]
R616	ERD25FVJ820T	82 1/4W [M]
R617	ERD25FVJ820T	82 1/4W [M]
R618	ERD25FVJ820T	82 1/4W [M]
R619	ERD25FVJ820T	82 1/4W [M]
R620	ERD25FVJ220T	22 1/4W [M]
R621	ERDS2TJ682T	6.8K 1/4W [M]
R622	ERDS2TJ682T	6.8K 1/4W [M]
R623	ERDS2TJ682T	6.8K 1/4W [M]
R624	ERD25FVJ4R7T	4.7 1/4W [M]
R625	ERG1SJ101E ⚠	100 1W [M]
R626	ERG1SJ101E ⚠	100 1W [M]
R627	ERG1SJ101E ⚠	100 1W [M]
R628	ERG1SJ101E ⚠	100 1W [M]
R629	ERDS2TJ102T	1K 1/4W [M]
R630	ERDS2TJ124T	120K 1/4W [M]
R631	ERDS2TJ154T	150K 1/4W [M]
R632	ERDS2TJ184T	180K 1/4W [M]
R633	ERDS2TJ473T	47K 1/4W [M]
R634	ERDS2TJ274T	270K 1/4W [M]
R635	ERDS2TJ154T	150K 1/4W [M]
R636	ERDS2TJ473T	47K 1/4W [M]
R637	ERDS2TJ154T	150K 1/4W [M]
R638	ERDS2TJ154T	150K 1/4W [M]
R639	ERDS2TJ104T	100K 1/4W [M]
R640	ERDS2TJ681T	680 1/4W [M]
R641	ERDS2TJ104T	100K 1/4W [M]
R642	ERDS2TJ182T	1.8K 1/4W [M]
R643	ERDS2TJ563T	56K 1/4W [M]
R644	ERDS1FVJ100T ⚠	10 1/2W [M]
R645	ERDS2TJ470T	47 1/4W [M]
R646	ERDS2TJ332T	3.3K 1/4W [M]
R647	ERDS2TJ221T	220 1/4W [M]
R648	ERDS2TJ683T	68K 1/4W [M]
R649	ERDS2TJ104T	100K 1/4W [M]
R651	ERDS2TJ102T	1K 1/4W [M]
R652	ERDS2TJ102T	1K 1/4W [M]
R653	ERDS2TJ563T	56K 1/4W [M]
R654	ERDS2TJ563T	56K 1/4W [M]
R655	ERDS2TJ182T	1.8K 1/4W [M]
R656	ERDS2TJ182T	1.8K 1/4W [M]
R657	ERDS2TJ563T	56K 1/4W [M]
R658	ERDS2TJ563T	56K 1/4W [M]
R659	ERDS2TJ221T	220 1/4W [M]
R660	ERDS2TJ221T	220 1/4W [M]
R661	ERDS1FVJ100T ⚠	10 1/2W [M]
R662	ERDS1FVJ100T ⚠	10 1/2W [M]
R663	ERDS2TJ470T	47 1/4W [M]
R664	ERDS2TJ470T	47 1/4W [M]
R665	ERDS2TJ102T	1K 1/4W [M]
R666	ERDS2TJ102T	1K 1/4W [M]
R667	ERDS2TJ184T	180K 1/4W [M]
R668	ERDS2TJ154T	150K 1/4W [M]
R669	ERDS2TJ563T	56K 1/4W [M]
R670	ERDS2TJ563T	56K 1/4W [M]
R671	ERD25FVJ151T	150 1/4W [M]
R672	ERD25FVJ151T	150 1/4W [M]
R673	ERDS2TJ274T	270K 1/4W [M]
R674	ERDS2TJ684T	680K 1/4W [M]
R675	ERDS2TJ564T	560K 1/4W [M]
R676	ERDS2TJ101T	100 1/4W [M]
R677	ERDS2TJ473T	47K 1/4W [M]
R678	ERDS2TJ473T	47K 1/4W [M]
R689	ERDS2TJ821T	820 1/4W [M]
R690	ERDS2TJ821T	820 1/4W [M]
R698	ERDS2TJ152T	1.5K 1/4W [M]
R699	ERDS2TJ152T	1.5K 1/4W [M]
R703	ERDS1FVJ3R9T ⚠	3.9 1/2W [M]
R704	RSFMC0R5KT-L ⚠	FUSE PROTECTOR[M]
R705	ERDS2TJ472T	4.7K 1/4W [M]
R706	ERDS2TJ102T	1K 1/4W [M]
R707	ERD25FVJ221T	220 1/4W [M]
R708	ERDS2TJ152T	1.5K 1/4W [M]
R709	ERDS2TJ1R5T	1.5 1/4W [M]
R710	ERDS2TJ1R5T	1.5 1/4W [M]
R711	ERDS2TJ752T	7.5K 1/4W [M]
R712	ERDS2TJ682T	6.8K 1/4W [M]
R713	ERDS2TJ390T	39 1/4W [M]
R714	ERDS2TJ390T	39 1/4W [M]
R721	ERDS1FVJ221T ⚠	220 1/2W [M]
R722	ERDS2TJ123T	12K 1/4W [M]
R723	ERDS1FVJ3R9T ⚠	3.9 1/2W [M]
R724	RSFMC0R5KT-L ⚠	FUSE PROTECTOR[M]
R725	ERDS2TJ821T	820 1/4W [M]
R726	ERD25FVJ151T	150 1/4W [M]
R727	ERD25FVJ151T	150 1/4W [M]
R728	ERDS2TJ684T	680K 1/4W [M]
R729	ERDS2TJ684T	680K 1/4W [M]
R730	ERDS1FVJ8R2T ⚠	8.2 1/2W [M]
R756	ERDS2TJ222T	2.2K 1/4W [M]
R766	ERDS2TJ473T	47K 1/4W [M]
R767	ERDS2TJ154T	150K 1/4W [M]
R768	ERDS2TJ102T	1K 1/4W [M]
R769	ERDS2TJ103T	10K 1/4W [M]
R770	ERDS2TJ104T	100K 1/4W [M]
R771	ERDS2TJ104T	100K 1/4W [M]
R773	ERDS2TJ103T	10K 1/4W [M]
R774	ERDS2TJ155T	1.5M 1/4W [M]
R775	ERDS2TJ331T	330 1/4W [M]
R776	ERDS1FVJ150T ⚠	15 1/2W [M]
R777	ERDS2TJ154T	150K 1/4W [M]
R778	ERDS2TJ472T	4.7K 1/4W [M]
R779	ERDS2TJ103T	10K 1/4W [M]
R780	ERDS1FVJ3R9T ⚠	3.9 1/2W [M]
R782	ERDS2TJ390T	39 1/4W [M]
R784	ERDS2TJ154T	150K 1/4W [M]
R786	ERDS2TJ154T	150K 1/4W [M]
R791	ERDS2TJ123T	12K 1/4W [M]
R792	ERDS2TJ123T	12K 1/4W [M]
R793	ERDS2TJ123T	12K 1/4W [M]
R794	ERDS2TJ123T	12K 1/4W [M]
R795	ERDS2TJ223T	22K 1/4W [M]
R797	ERDS2TJ223T	22K 1/4W [M]
R798	ERDS2TJ223T	22K 1/4W [M]
R799	ERDS2TJ682T	6.8K 1/4W [M]
R891	ERDS2TJ103T	10K 1/4W [M]
R892	ERDS2TJ103T	10K 1/4W [M]
R893	ERDS2TJ103T	10K 1/4W [M]
R894	ERDS2TJ103T	10K 1/4W [M]
R900	ERDS2TJ472T	4.7K 1/4W [M]
R901	ERDS2TJ102T	1K 1/4W [M]
R903	ERDS2TJ104T	100K 1/4W [M]
R904	ERDS2TJ472T	4.7K 1/4W [M]
R905	ERDS2TJ181T	180 1/4W [M]
R906	ERDS2TJ182T	1.8K 1/4W [M]
R907	ERDS2TJ104T	100K 1/4W [M]
R908	ERDS2TJ104T	100K 1/4W [M]
R909	ERDS2TJ104T	100K 1/4W [M]
R910	ERDS2TJ102T	1K 1/4W [M]
R911	ERDS2TJ104T	100K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R914	ERDS2TJ223T	22K 1/4W [M]
R915	ERDS2TJ104T	100K 1/4W [M]
R917	ERDS2TJ103T	10K 1/4W [M]
R918	ERDS2TJ102T	1K 1/4W [M]
R919	ERDS2TJ102T	1K 1/4W [M]
R920	ERDS2TJ271T	270 1/4W [M]
R921	ERDS2TJ121T	120 1/4W [M]
R922	ERDS2TJ472T	4.7K 1/4W [M]
R924	ERDS2TJ103T	10K 1/4W [M]
R927	ERDS2TJ181T	180 1/4W [M]
R929	ERDS2TJ101T	100 1/4W [M]
R930	ERDS2TJ101T	100 1/4W [M]
R931	ERDS2TJ271T	270 1/4W [M]
R932	ERDS2TJ271T	270 1/4W [M]
R933	ERDS2TJ271T	270 1/4W [M]
R934	ERDS2TJ271T	270 1/4W [M]
R935	ERDS2TJ271T	270 1/4W [M]
R936	ERDS2TJ271T	270 1/4W [M]
R937	ERDS2TJ271T	270 1/4W [M]
R939	ERDS2TJ271T	270 1/4W [M]
R940	ERDS2TJ271T	270 1/4W [M]
R941	ERDS2TJ271T	270 1/4W [M]
R942	ERDS2TJ181T	180 1/4W [M]
R943	ERDS2TJ102T	1K 1/4W [M]
R944	ERDS2TJ104T	100K 1/4W [M]
R945	ERDS2TJ104T	100K 1/4W [M]
R946	ERDS2TJ103T	10K 1/4W [M]
R947	ERDS2TJ103T	10K 1/4W [M]
R950	ERDS2TJ102T	1K 1/4W [M]
R951	ERDS2TJ122T	1.2K 1/4W [M]
R952	ERDS2TJ152T	1.5K 1/4W [M]
R953	ERDS2TJ182T	1.8K 1/4W [M]
R954	ERDS2TJ222T	2.2K 1/4W [M]
R955	ERDS2TJ332T	3.3K 1/4W [M]
R956	ERDS2TJ472T	4.7K 1/4W [M]
R957	ERDS2TJ682T	6.8K 1/4W [M]
R960	ERDS2TJ102T	1K 1/4W [M]
R961	ERDS2TJ122T	1.2K 1/4W [M]
R962	ERDS2TJ152T	1.5K 1/4W [M]
R963	ERDS2TJ182T	1.8K 1/4W [M]
R964	ERDS2TJ222T	2.2K 1/4W [M]
R965	ERDS2TJ332T	3.3K 1/4W [M]
R966	ERDS2TJ472T	4.7K 1/4W [M]
R967	ERDS2TJ682T	6.8K 1/4W [M]
R968	ERDS2TJ123T	12K 1/4W [M]
R970	ERDS2TJ102T	1K 1/4W [M]
R971	ERDS2TJ122T	1.2K 1/4W [M]
R972	ERDS2TJ152T	1.5K 1/4W [M]
R973	ERDS2TJ182T	1.8K 1/4W [M]
R974	ERDS2TJ122T	1.2K 1/4W [M]
R977	ERDS2TJ102T	1K 1/4W [M]
R978	ERDS2TJ102T	1K 1/4W [M]
R991	ERDS2TJ104T	100K 1/4W [M]
R992	ERDS2TJ104T	100K 1/4W [M]
R993	ERDS2TJ104T	100K 1/4W [M]
R994	ERDS2TJ104T	100K 1/4W [M]
R995	ERDS2TJ104T	100K 1/4W [M]
R996	ERDS2TJ104T	100K 1/4W [M]
R997	ERDS2TJ101T	100 1/4W [M]
R998	ERDS2TJ101T	100 1/4W [M]
R1011	ERJ3GEYJ102Z	1K 1/16W[M]
R1012	ERJ3GEYJ104Z	100K 1/16W[M]
R1013	ERJ3GEYJ102Z	1K 1/16W[M]
R1014	ERJ3GEYJ102Z	1K 1/16W[M]
R1015	ERJ3GEYJ102Z	1K 1/16W[M]
R1016	ERJ3GEYJ102Z	1K 1/16W[M]
R1017	ERJ3GEYJ102Z	1K 1/16W[M]
R1018	ERJ3GEYJ331V	330 1/16W[M]
R1019	ERJ3GEYJ331V	330 1/16W[M]
R1020	ERJ3GEYJ331V	330 1/16W[M]
R1021	ERJ3GEYJ473V	47K 1/16W[M]
R1022	ERJ3GEYJ1R5V	1.5 1/16W[M]
R1023	ERJ3GEYJ102Z	1K 1/16W[M]
R1024	ERJ3GEYJ101V	100 1/16W[M]
R1025	ERJ3GEYJ101V	100 1/16W[M]
R1026	ERJ3GEYJ101V	100 1/16W[M]
R1027	ERJ3GEYJ101V	100 1/16W[M]
R1028	ERJ3GEYJ101V	100 1/16W[M]
R1029	ERJ3GEYJ101V	100 1/16W[M]
R1030	ERJ3GEYJ470V	47K 1/16W[M]
R1031	ERJ3GEYJ470V	47K 1/16W[M]
R1032	ERJ3GEYJ470V	47K 1/16W[M]
R1033	ERJ3GEYJ102Z	1K 1/16W[M]
R1034	ERJ3GEYJ330V	33 1/16W[M]
R1041	ERJ3GEYJ102Z	1K 1/16W[M]
R1042	ERJ3GEYJ331V	330 1/16W[M]
R1043	ERJ3GEYJ102Z	1K 1/16W[M]
R1044	ERJ3GEYJ102Z	1K 1/16W[M]
R1045	ERJ3GEYJ102Z	1K 1/16W[M]
R1046	ERJ3GEYJ102Z	1K 1/16W[M]
R1047	ERJ3GEYJ102Z	1K 1/16W[M]
R1048	ERJ3GEYJ102Z	1K 1/16W[M]
R1049	ERJ3GEYJ100V	10 1/16W[M]
R1050	ERJ3GEYJ472V	4.7K 1/16W[M]
R1051	ERJ3GEYJ472V	4.7K 1/16W[M]
R1052	ERJ3GEYJ472V	4.7K 1/16W[M]
R1053	ERJ3GEYJ472V	4.7K 1/16W[M]
R1054	ERJ3GEYJ472V	4.7K 1/16W[M]
R1055	ERJ3GEYJ330V	33 1/16W[M]
R1057	ERJ3GEYJ330V	33 1/16W[M]
R1058	ERJ3GEY0R00V	0 1/16W[M]
R1059	ERJ3GEYJ330V	33 1/16W[M]
R1060	ERJ3GEYJ102Z	1K 1/16W[M]
R1061	ERJ3GEYJ104Z	100K 1/16W[M]
R1062	ERJ3GEYJ102Z	1K 1/16W[M]
R1063	ERJ3GEYJ104Z	100K 1/16W[M]
R1064	ERJ3GEYJ103Z	10K 1/16W[M]
R1065	ERJ3GEYJ103Z	10K 1/16W[M]
R1066	ERJ3GEYJ102Z	1K 1/16W[M]
R1067	ERJ3GEYJ102Z	1K 1/16W[M]
R1068	ERJ3GEYJ330V	33 1/16W[M]
R1069	ERJ3GEYJ102Z	1K 1/16W[M]
R1070	ERJ3GEYJ102Z	1K 1/16W[M]
R1071	ERJ3GEYJ472V	4.7K 1/16W[M]
R1072	ERJ3GEYJ102Z	1K 1/16W[M]
R1073	ERJ3GEYJ102Z	1K 1/16W[M]
R1074	ERJ3GEYJ472V	4.7K 1/16W[M]
R1075	ERJ3GEYJ472V	4.7K 1/16W[M]
R1076	ERJ3GEYJ472V	4.7K 1/16W[M]
R1077	ERJ3GEYJ472V	4.7K 1/16W[M]
R1078	ERJ3GEYJ472V	4.7K 1/16W[M]
R1079	ERJ3GEYJ472V	4.7K 1/16W[M]
R1080	ERJ3GEYJ472V	4.7K 1/16W[M]
R1081	ERJ3GEYJ472V	4.7K 1/16W[M]
R1083	ERJ3GEYJ101V	100 1/16W[M]
R1201	ERDS2TJ333T	33K 1/4W [M]
R1202	ERDS2TJ333T	33K 1/4W [M]
R1203	ERDS2TJ820T	82 1/4W [M]
R1204	ERDS2TJ820T	82 1/4W [M]
R1205	ERDS2TJ102T	1K 1/4W [M]
R1206	ERDS2TJ102T	1K 1/4W [M]
R1207	ERDS2TJ392T	3.9K 1/4W [M]
R1208	ERDS2TJ392T	3.9K 1/4W [M]
R1209	ERDS2TJ332T	3.3K 1/4W [M]
R1210	ERDS2TJ332T	3.3K 1/4W [M]
R1211	ERDS2TJ472T	4.7K 1/4W [M]
R1212	ERDS2TJ472T	4.7K 1/4W [M]
R1213	ERDS2TJ332T	3.3K 1/4W [M]
R1214	ERDS2TJ332T	3.3K 1/4W [M]
R1215	ERDS2TJ562T	5.6K 1/4W [M]
R1216	ERDS2TJ562T	5.6K 1/4W [M]
R1217	ERDS2TJ103T	10K 1/4W [M]
R1218	ERDS2TJ103T	10K 1/4W [M]
R1219	ERDS2TJ222T	2.2K 1/4W [M]
R1220	ERDS2TJ101T	100 1/4W [M]
R1221	ERDS2TJ224T	220K 1/4W [M]
R1222	ERDS2TJ222T	2.2K 1/4W [M]
R1223	ERDS2TJ103T	10K 1/4W [M]
R1224	ERDS2TJ104T	100K 1/4W [M]
R1225	ERDS2TJ103T	10K 1/4W [M]
R1226	ERDS2TJ103T	10K 1/4W [M]
R1227	ERDS2TJ124T	120K 1/4W [M]
R1228	ERDS2TJ124T	120K 1/4W [M]
R1229	ERDS2TJ272T	2.7K 1/4W [M]
R1230	ERDS2TJ272T	2.7K 1/4W [M]
R1231	ERDS2TJ332T	3.3K 1/4W [M]
R1232	ERDS2TJ332T	3.3K 1/4W [M]
R1233	ERDS2TJ562T	5.6K 1/4W [M]
R1234	ERDS2TJ562T	5.6K 1/4W [M]
R1235	ERDS2TJ153T	15K 1/4W [M]
R1236	ERDS2TJ153T	15K 1/4W [M]
R1237	ERDS2TJ222T	2.2K 1/4W [M]
R1238	ERDS2TJ222T	2.2K 1/4W [M]
R1239	ERDS2TJ222T	2.2K 1/4W [M]
R1240	ERDS2TJ222T	2.2K 1/4W [M]
R1241	ERDS2TJ124T	120K 1/4W [M]
R1242	ERDS2TJ124T	120K 1/4W [M]
R1243	ERDS2TJ272T	2.7K 1/4W [M]
R1244	ERDS2TJ183T	18K 1/4W [M]
R1245	ERDS2TJ332T	3.3K 1/4W [M]
R1246	ERDS2TJ332T	3.3K 1/4W [M]
R1247	ERDS2TJ562T	5.6K 1/4W [M]
R1248	ERDS2TJ222T	2.2K 1/4W [M]
R1249	ERDS2TJ153T	15K 1/4W [M]
R1250	ERDS2TJ820T	82 1/4W [M]
R1251	ERDS2TJ222T	2.2K 1/4W [M]
R1253	ERDS2TJ222T	2.2K 1/4W [M]
R1255	ERDS2TJ332T	3.3K 1/4W [M]
R1256	ERDS2TJ473T	47K 1/4W [M]
R1257	ERDS2TJ473T	47K 1/4W [M]
R1258	ERDS2TJ473T	47K 1/4W [M]
R1259	ERDS2TJ473T	47K 1/4W [M]
R1260	ERDS2TJ473T	47K 1/4W [M]
R1261	ERDS2TJ224T	220K 1/4W [M]
R1262	ERDS2TJ224T	220K 1/4W [M]
R1263	ERDS2TJ223T	22K 1/4W [M]
R1264	ERDS2TJ223T	22K 1/4W [M]
R1265	ERDS2TJ472T	4.7K 1/4W [M]
R1266	ERDS2TJ472T	4.7K 1/4W [M]
R1267	ERDS2TJ103T	10K 1/4W [M]
R1268	ERDS2TJ103T	10K 1/4W [M]
R1269	ERDS2TJ103T	10K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R1270	ERDS2TJ103T	10K 1/4W [M]
R1271	ERDS2TJ103T	10K 1/4W [M]
R1272	ERDS2TJ103T	10K 1/4W [M]
R1281	ERDS2TJ152T	1.5K 1/4W [M]
R1282	ERG1SJ181E ⚠	180 1W [M]
R1283	ERG1SJ181E ⚠	180 1W [M]
R1284	ERDS2TJ102T	1K 1/4W [M]
R1285	ERDS2TJ102T	1K 1/4W [M]
R1286	ERDS2TJ102T	1K 1/4W [M]
R1301	ERDS2TJ332T	3.3K 1/4W [M]
R1302	ERDS2TJ102T	1K 1/4W [M]
R1303	ERDS2TJ470T	47 1/4W [M]
R1304	ERDS2TJ332T	3.3K 1/4W [M]
R1305	ERDS2TJ102T	1K 1/4W [M]
R1306	ERDS2TJ470T	47 1/4W [M]
R1307	ERDS2TJ151T	150 1/4W [M]
R1308	ERDS2TJ100T	10 1/4W [M]
R1309	ERDS2TJ470T	47 1/4W [M]
R1681	ERDS2TJ270T	27 1/4W [M]
R1682	ERDS2TJ270T	27 1/4W [M]
R1683	ERDS2TJ270T	27 1/4W [M]
R1684	ERDS2TJ270T	27 1/4W [M]
R1685	ERDS2TJ270T	27 1/4W [M]
R1686	ERDS2TJ270T	27 1/4W [M]
R1687	ERDS2TJ270T	27 1/4W [M]
R1688	ERDS2TJ270T	27 1/4W [M]
R1689	ERDS2TJ270T	27 1/4W [M]
R1690	ERDS2TJ270T	27 1/4W [M]
R1691	ERDS2TJ270T	27 1/4W [M]
R1692	ERDS2TJ270T	27 1/4W [M]
R1693	ERDS2TJ270T	27 1/4W [M]
R1694	ERDS2TJ270T	27 1/4W [M]
R1695	ERDS2TJ102T	1K 1/4W [M]
R1696	ERDS2TJ102T	1K 1/4W [M]
R1699	ERDS2TJ332T	3.3K 1/4W [M]
R1701	ERDS1FVJ4R7T ⚠	4.7 1/2W [M]
R1702	ERDS1FVJ4R7T ⚠	4.7 1/2W [M]
R1703	ERDS1FVJ2R7T ⚠	2.7 1/2W [M]
R1704	ERDS1FVJ2R7T ⚠	2.7 1/2W [M]
R1705	ERDS1FVJ2R7T ⚠	2.7 1/2W [M]
R1707	ERDS2TJ272T	2.7K 1/4W [M]
R1708	ERDS2TJ471T	470 1/4W [M]
R1709	ERDS2TJ471T	470 1/4W [M]
R1710	ERDS2TJ272T	2.7K 1/4W [M]
R1901	ERDS2TJ102T	1K 1/4W [M]
R1902	ERDS2TJ472T	4.7K 1/4W [M]
R1903	ERDS2TJ104T	100K 1/4W [M]
R1904	ERDS2TJ121T	120 1/4W [M]

Ref No.	Part No.	Values & Remarks
R1905	ERDS2TJ271T	270 1/4W [M]
R1906	ERDS2TJ101T	100 1/4W [M]
R1907	ERDS2TJ101T	100 1/4W [M]
R1909	ERDS2TJ102T	1K 1/4W [M]
R1910	ERDS2TJ102T	1K 1/4W [M]
R1911	ERDS2TJ102T	1K 1/4W [M]
R1912	ERDS2TJ102T	1K 1/4W [M]
R1913	ERDS2TJ102T	1K 1/4W [M]
R1914	ERDS2TJ102T	1K 1/4W [M]
R1915	ERDS2TJ101T	100 1/4W [M]
R1916	ERDS2TJ101T	100 1/4W [M]
R1917	ERDS2TJ102T	1K 1/4W [M]
R1918	ERDS2TJ102T	1K 1/4W [M]
R1919	ERDS2TJ102T	1K 1/4W [M]
R1920	ERDS2TJ102T	1K 1/4W [M]
R1922	ERDS2TJ104T	100K 1/4W [M]
R1923	ERDS2TJ102T	1K 1/4W [M]
R1924	ERDS2TJ102T	1K 1/4W [M]
R1925	ERDS2TJ102T	1K 1/4W [M]
R1926	ERDS2TJ102T	1K 1/4W [M]
R1928	ERDS2TJ101T	100 1/4W [M]
R1929	ERDS2TJ101T	100 1/4W [M]
R1930	ERDS2TJ101T	100 1/4W [M]
R1931	ERDS2TJ101T	100 1/4W [M]
R1932	ERDS2TJ101T	100 1/4W [M]
R1933	ERDS2TJ101T	100 1/4W [M]
R1934	ERDS2TJ101T	100 1/4W [M]
R1935	ERDS2TJ101T	100 1/4W [M]
R1936	ERDS2TJ101T	100 1/4W [M]
R1937	ERDS2TJ101T	100 1/4W [M]
R1938	ERDS2TJ101T	100 1/4W [M]
R1939	ERDS2TJ101T	100 1/4W [M]
R1940	ERDS2TJ103T	10K 1/4W [M]
R1941	ERDS2TJ101T	100 1/4W [M]
R1942	ERDS2TJ101T	100 1/4W [M]
R1943	ERDS2TJ101T	100 1/4W [M]
R1945	ERDS2TJ101T	100 1/4W [M]
R1946	ERDS2TJ102T	1K 1/4W [M]

Ref No.	Part No.	Values & Remarks
	CAPACITORS	
C101	ECBT1C103NS5	0.01 16V [M]
C103	ECBT1C103NS5	0.01 16V [M]
C104	ECBT1H102KB5	1000P 50V [M]
C105	ECBT1H470J5	47P 50V [M]
C106	ECBT1C103NS5	0.01 16V [M]
C107	ECBT1H473ZF5	0.047 50V [M]
C108	ECBT1H8R2KC5	8.2P 50V [M]
C109	ECBT1C103NS5	0.01 16V [M]
C110	ECBT1C103NS5	0.01 16V [M]
C111	ECEA1EKA4R7B	4.7 25V [M]
C112	ECBT1C103NS5	0.01 16V [M]
C113	ECBT1H102KB5	1000P 50V [M]
C114	ECEA1HKA3R3B	3.3 50V [M]
C115	ECEA1EKA4R7B	4.7 25V [M]
C116	ECBT1C822MS5	8200P 16V [M]
C117	ECQB1H471JM3	470P 50V [M]
C118	ECQB1H103JM3	0.01 50V [M]
C119	ECQB1H103JM3	0.01 50V [M]
C120	ECEA1HKA010B	1 50V [M]
C121	ECEA1HKA010B	1 50V [M]
C122	ECEA1HKA2R2B	2.2 50V [M]
C123	ECEA1HKA010B	1 50V [M]
C124	ECBT1H102KB5	1000P 50V [M]
C125	ECBT1H150JC5	15P 50V [M]
C126	ECBT1H104ZF5	0.1 50V [M]
C127	ECEA1CKA220B	22 16V [M]
C128	ECBT1C103NS5	0.01 16V [M]
C129	ECEA0JKA101B	100 6.3V [M]
C130	ECEA0JKA101B	100 6.3V [M]
C131	ECBT1C103NS5	0.01 16V [M]
C132	ECBT1H102KB5	1000P 50V [M]
C133	ECBT1H150JC5	15P 50V [M]
C134	ECBT1H180JC5	18P 50V [M]
C135	ECBT1C103MS5	0.01 16V [M]
C136	ECBT1C103MS5	0.01 16V [M]
C137	ECBT1H561KB5	560P 50V [M]
C138	ECBT1H561KB5	560P 50V [M]
C139	ECQB1H682JM3	6800P 50V [M]
C140	ECQB1H682JM3	6800P 50V [M]
C141	ECEA1HKA010B	1 50V [M]
C142	ECEA1HKA010B	1 50V [M]
C143	ECEA1HKA010B	1 50V [M]
C144	ECEA1HKA010B	1 50V [M]
C145	ECBT1H220JC5	22P 50V [M]
C146	ECBT1H331KB5	330P 50V [M]
C147	ECBT1H102KB5	1000P 50V [M]

Ref No.	Part No.	Values & Remarks
C148	ECBT1C103NS5	0.01 16V [M]
C149	ECBT1C103NS5	0.01 16V [M]
C150	ECBT1H104ZF5	0.1 50V [M]
C172	ECBT1H331KB5	330P 50V [M]
C173	ECEA1CKA220B	22 16V [M]
C174	ECEA1CKA101B	100 16V [M]
C175	ECBT1C103NS5	0.01 16V [M]
C176	ECBT1C103NS5	0.01 16V [M]
C181	ECBT1H471KB5	470P 50V [M]
C196	ECBT1H102KB5	1000P 50V [M]
C308	ECEA0JKA101B	100 6.3V [M]
C309	ECEA0JKA101B	100 6.3V [M]
C329	ECBT1H470J5	47P 50V [M]
C330	ECBT1H470J5	47P 50V [M]
C351	ECEA0JKA101B	100 6.3V [M]
C352	ECEA0JKA101B	100 6.3V [M]
C354	ECBT1H104ZF5	0.1 50V [M]
C355	ECBT1H104ZF5	0.1 50V [M]
C357	ECBT1E103ZF5	0.01 25V [M]
C358	ECBT1E103ZF5	0.01 25V [M]
C373	ECEA1CKA470B	47 16V [M]
C374	ECEA1CKA470B	47 16V [M]
C375	ECEA1CKA470B	47 16V [M]
C401	ECEA1VKA4R7B	4.7 35V [M]
C402	ECEA1VKA4R7B	4.7 35V [M]
C403	ECBT1E103ZF5	0.01 25V [M]
C404	ECBT1E103ZF5	0.01 25V [M]
C405	ECBT1H101KB5	100P 50V [M]
C406	ECBT1H101KB5	100P 50V [M]
C409	ECEA1CKA220B	22 16V [M]
C410	ECEA1CKA220B	22 16V [M]
C411	ECBT1H101KB5	100P 50V [M]
C412	ECBT1H101KB5	100P 50V [M]
C413	ECEA1CKA100B	10 16V [M]
C414	ECEA1CKA100B	10 16V [M]
C415	ECBT1E103ZF5	0.01 25V [M]
C416	ECBT1E103ZF5	0.01 25V [M]
C417	ECEA1CKA100B	10 16V [M]
C418	ECEA1CKA100B	10 16V [M]
C419	ECBT1H331KB5	330P 50V [M]
C420	ECEA1HKA3R3B	3.3 50V [M]
C421	ECBT1H101KB5	100P 50V [M]
C422	ECBT1H101KB5	100P 50V [M]
C423	ECBT1H331KB5	330P 50V [M]
C424	ECBT1H331KB5	330P 50V [M]
C425	ECBT1H331KB5	330P 50V [M]
C426	ECBT1H331KB5	330P 50V [M]
C427	ECBT1H331KB5	330P 50V [M]

Ref No.	Part No.	Values & Remarks
C428	ECBT1H331KB5	330P 50V [M]
C429	ECBT1H101KB5	100P 50V [M]
C430	ECBT1H101KB5	100P 50V [M]
C431	ECBT1H101KB5	100P 50V [M]
C432	ECBT1H101KB5	100P 50V [M]
C433	ECBT1H101KB5	100P 50V [M]
C434	ECBT1H101KB5	100P 50V [M]
C435	ECBT1H331KB5	330P 50V [M]
C436	ECBT1H331KB5	330P 50V [M]
C437	ECBT1H331KB5	330P 50V [M]
C438	ECBT1H331KB5	330P 50V [M]
C439	ECBT1H101KB5	100P 50V [M]
C440	ECBT1E103ZF5	0.01 25V [M]
C441	ECEA1VKA4R7B	4.7 35V [M]
C442	ECEA1VKA4R7B	4.7 35V [M]
C443	ECBT1E103ZF5	0.01 25V [M]
C444	ECBT1E103ZF5	0.01 25V [M]
C451	ECEA1VKA4R7B	4.7 35V [M]
C452	ECEA1VKA4R7B	4.7 35V [M]
C453	ECBT1H100J5	10P 50V [M]
C454	ECBT1H100J5	10P 50V [M]
C455	ECBT1H102KB5	1000P 50V [M]
C456	ECBT1H102KB5	1000P 50V [M]
C457	ECEA1AKA330B	33 10V [M]
C458	ECEA1AKA330B	33 10V [M]
C459	ECFR1E223KR	0.022 25V [M]
C460	ECFR1E223KR	0.022 25V [M]
C461	ECFR1E682KR	6800P 25V [M]
C462	ECFR1E682KR	6800P 25V [M]
C463	ECEA1VKA4R7B	4.7 35V [M]
C464	ECEA1VKA4R7B	4.7 35V [M]
C465	ECBT1E103ZF5	0.01 25V [M]
C466	ECBT1E103ZF5	0.01 25V [M]
C469	ECBT1H181KB5	180P 50V [M]
C470	ECBT1H181KB5	180P 50V [M]
C471	ECEA1HKA3R3B	3.3 50V [M]
C472	ECEA1HKA3R3B	3.3 50V [M]
C473	ECEA1HKA3R3B	3.3 50V [M]
C474	ECEA1HKA3R3B	3.3 50V [M]
C475	ECEA1CKA100B	10 16V [M]
C476	ECEA1CKA100B	10 16V [M]
C477	ECBT1E103ZF5	0.01 25V [M]
C478	ECBT1E103ZF5	0.01 25V [M]
C479	ECEA1HKA3R3B	3.3 50V [M]
C480	ECEA1HKA3R3B	3.3 50V [M]
C481	ECEA1HKA3R3B	3.3 50V [M]
C482	ECEA1HKA3R3B	3.3 50V [M]
C483	ECEA1HKA3R3B	3.3 50V [M]

Ref No.	Part No.	Values & Remarks
C484	ECEA1HKA3R3B	3.3 50V [M]
C485	ECEA1HKA3R3B	3.3 50V [M]
C486	ECEA1HKA3R3B	3.3 50V [M]
C487	ECEA1CKA100B	10 16V [M]
C488	ECEA1CKA100B	10 16V [M]
C489	ECEA1CKA100B	10 16V [M]
C490	ECBT1H101KB5	100P 50V [M]
C491	ECBT1H101KB5	100P 50V [M]
C492	ECBT1H101KB5	100P 50V [M]
C493	ECBT1E103ZF5	0.01 25V [M]
C494	ECBT1E103ZF5	0.01 25V [M]
C495	ECBT1H101KB5	100P 50V [M]
C496	ECBT1H101KB5	100P 50V [M]
C497	ECBT1H101KB5	100P 50V [M]
C498	ECBT1C103KS5	0.01 16V [M]
C499	ECBT1E103ZF5	0.01 25V [M]
C503	ECEA0JKA101B	100 6.3V [M]
C504	ECEA0JKA101B	100 6.3V [M]
C505	ECFR1C104MR	0.1 16V [M]
C506	ECFR1C104MR	0.1 16V [M]
C511	ECEA1HKA3R3B	3.3 50V [M]
C512	ECEA1HKA3R3B	3.3 50V [M]
C513	ECBT1H150J5	15P 50V [M]
C514	ECBT1H150J5	15P 50V [M]
C515	ECBT1H221KB5	220P 50V [M]
C516	ECBT1H221KB5	220P 50V [M]
C517	ECBT1H330J5	33P 50V [M]
C518	ECBT1H330J5	33P 50V [M]
C519	ECEA1VKA4R7B	4.7 35V [M]
C520	ECEA1VKA4R7B	4.7 35V [M]
C521	ECEA1VKA4R7B	4.7 35V [M]
C522	ECEA1VKA4R7B	4.7 35V [M]
C523	ECFR1E123KR	0.012 25V [M]
C524	ECFR1E123KR	0.012 25V [M]
C525	ECQV1H683JM3	0.068 50V [M]
C526	ECQV1H683JM3	0.068 50V [M]
C527	ECBT1C562KR5	5600P 16V [M]
C528	ECBT1C562KR5	5600P 16V [M]
C529	ECQB1H273JM3	0.027 50V [M]
C530	ECQB1H273JM3	0.027 50V [M]
C531	ECBT1E103ZF5	0.01 25V [M]
C532	ECBT1E103ZF5	0.01 25V [M]
C533	ECEA1CKA220B	22 16V [M]
C534	ECEA1CKA220B	22 16V [M]
C535	ECBT1H104ZF5	0.1 50V [M]
C536	ECBT1H104ZF5	0.1 50V [M]
C537	ECEA1CKA100B	10 16V [M]
C538	ECEA1CKA100B	10 16V [M]

Ref No.	Part No.	Values & Remarks
C551	ECEA1HKA3R3B	3.3 50V [M]
C552	ECEA1HKA3R3B	3.3 50V [M]
C553	ECEA1CKA100B	10 16V [M]
C554	ECEA1CKA100B	10 16V [M]
C571	ECEA1CKA220B	22 16V [M]
C572	ECEA1CKA220B	22 16V [M]
C573	ECBT1H561KB5	560P 50V [M]
C574	ECBT1H561KB5	560P 50V [M]
C575	ECEA1CKA220B	22 16V [M]
C576	ECBT1H561KB5	560P 50V [M]
C577	ECBT1E103ZF5	0.01 25V [M]
C578	ECBT1E103ZF5	0.01 25V [M]
C585	ECEA1CKA220B	22 16V [M]
C586	ECEA1CKA100B	10 16V [M]
C601	ECA1JM330B	33 6.3V [M]
C602	ECA1JM330B	33 6.3V [M]
C603	ECBT1H821KB5	820P 50V [M]
C604	ECBT1H821KB5	820P 50V [M]
C607	ECCR1H180KC5	18P 50V [M]
C608	ECCR1H180KC5	18P 50V [M]
C611	ECQV1H104JZ3	0.1 50V [M]
C612	ECQV1H104JZ3	0.1 50V [M]
C613	ECQV1H104JZ3	0.1 50V [M]
C614	ECQV1H104JZ3	0.1 50V [M]
C615	ECBT1E103ZF5	0.01 25V [M]
C616	ECA1EM101B	100 25V [M]
C617	ECEA2AN2R2SB	2.2 100V [M]
C618	ECBT1H102KB5	1000P 50V [M]
C619	ECA1EM101B	100 25V [M]
C621	ECEA2AU100B	10 100V [M]
C622	ECEA2AU100B	10 100V [M]
C625	ECEA1HN100SB	10 50V [M]
C626	ECEA1HN100SB	10 50V [M]
C631	ECKR1H223ZF5	0.022 50V [M]
C632	ECKR1H223ZF5	0.022 50V [M]
C633	ECKR1H223ZF5	0.022 50V [M]
C634	ECKR1H223ZF5	0.022 50V [M]
C635	ECKR1H223ZF5	0.022 50V [M]
C637	ECKR1H223ZF5	0.022 50V [M]
C638	ECKR1H223ZF5	0.022 50V [M]
C639	ECKR1H102ZF5	1000P 50V [M]
C640	ECKR1H102ZF5	1000P 50V [M]
C641	ECA1JM330B	33 6.3V [M]
C642	ECBT1H821KB5	820P 50V [M]
C643	ECCR1H180KC5	18P 50V [M]
C644	ECQV1H104JZ3	0.1 50V [M]
C645	ECQV1H104JZ3	0.1 50V [M]
C646	ECQE2334B117	0.33 250V [M]

Ref No.	Part No.	Values & Remarks
C650	ECBT1H102KB5	1000P 50V [M]
C651	ECEA1HN3R3SB	3.3 50V [M]
C652	ECEA1HN3R3SB	3.3 50V [M]
C653	ECBT1H681KB5	680P 50V [M]
C654	ECBT1H681KB5	680P 50V [M]
C655	ECEA1JU220B	22 63V [M]
C656	ECEA1JU220B	22 63V [M]
C657	ECCR1H100K5	10P 50V [M]
C658	ECCR1H100K5	10P 50V [M]
C659	ECBT1H221KB5	220P 50V [M]
C660	ECBT1H221KB5	220P 50V [M]
C661	ECQV1H104JZ3	0.1 50V [M]
C662	ECQV1H104JZ3	0.1 50V [M]
C663	ECQV1H104JZ3	0.1 50V [M]
C664	ECQV1H473JZ3	0.047 50V [M]
C665	ECBT1H681KB5	680P 50V [M]
C666	ECBT1H681KB5	680P 50V [M]
C667	ECEA2AU100B	10 100V [M]
C668	ECEA2AU100B	10 100V [M]
C669	ECEA2AN2R2SB	2.2 100V [M]
C670	ECEA1JU220B	22 63V [M]
C671	ECA1JM330B	33 6.3V [M]
C672	ECBT1H102KB5	1000P 50V [M]
C673	ECEA2AU100B	10 100V [M]
C691	ECBT1E103ZF5	0.01 25V [M]
C698	ECBT1H181KB5	180P 50V [M]
C698	ECKR1H181KB5	180P 50V [M]
C701	ECBT1E103ZF5	0.01 25V [M]
C702	ECQE2104KF3	0.1 250V [M]
C703	ECES75V752UM ⚠	7500 75V [M]
C704	ECES75V752UM ⚠	7500 75V [M]
C705	ECES1VV472N ⚠	4700 35V [M]
C706	ECES1VV472N ⚠	4700 35V [M]
C707	ECA1VM101B	100 35V [M]
C708	ECKR1H103ZF5	0.01 50V [M]
C709	ECEA1CKA330B	33 16V [M]
C710	ECBT1E103ZF5	0.01 25V [M]
C711	ECKR1H103ZF5	0.01 50V [M]
C712	ECEA1HKA100B	10 50V [M]
C713	ECKR1H103ZF5	0.01 50V [M]
C714	ECEA1EKA470B	47 25V [M]
C715	ECEA1CKA101B	100 16V [M]
C721	ECQE2104KF3	0.1 250V [M]
C722	ECQE2104KF3	0.1 250V [M]
C741	ECQV1H104JZ3	0.1 50V [M]
C742	ECA1AM472E ⚠	4700 10V [M]
C751	ECKWRS102MBC	1000P 400V [M]
C752	ECKR1H103ZF5	0.01 50V [M]

Ref No.	Part No.	Values & Remarks
C753	ECA1EM331B	330 25V [M]
C754	ECBT1E103ZF5	0.01 25V [M]
C755	ECEA1CKA470B	47 16V [M]
C757	ECEA1CKA100B	10 16V [M]
C758	ECEA1AKA101B	100 10V [M]
C771	ECEA1HKA4R7B	4.7 50V [M]
C772	ECEA1HKA4R7B	4.7 50V [M]
C773	ECBT1H104ZF5	0.1 50V [M]
C774	ECEA0JKA101B	100 6.3V [M]
C775	ECEA1CKA100B	10 16V [M]
C776	ECEA1HKA010B	1 50V [M]
C777	ECA1CM221B	220 16V [M]
C778	ECEA1CKA101B	100 16V [M]
C779	ECEA1CKA101B	100 16V [M]
C780	ECA1CM471B	470 16V [M]
C781	ECBT1E103ZF5	0.01 25V [M]
C891	ECEA1CKA100B	10 16V [M]
C894	ECBT1H101KB5	100P 50V [M]
C895	ECBT1H101KB5	100P 50V [M]
C901	ECEA0JU102B ⚠	1000 6.3V [M]
C902	ECBT1H104ZF5	0.1 50V [M]
C903	ECBT1E103ZF5	0.01 25V [M]
C904	ECEA0JU102B ⚠	1000 6.3V [M]
C905	ECBT1E103ZF5	0.01 25V [M]
C906	ECEA0JKA101B	100 6.3V [M]
C908	ECBT1E103ZF5	0.01 25V [M]
C909	ECEA1VKA220B	22 35V [M]
C910	ECEA1VKA220B	22 35V [M]
C911	ECEA1VKA220B	22 35V [M]
C912	ECEA1VKA220B	22 35V [M]
C913	ECEA1VKA100B	10 35V [M]
C914	ECEA1VKA100B	10 35V [M]
C916	ECEA1HKA010B	1 50V [M]
C917	ECEA0JKA101B	100 6.3V [M]
C918	ECEA0JKA101B	100 6.3V [M]
C920	ECEA1HKA010B	1 50V [M]
C921	ECBT1H331KB5	330P 50V [M]
C922	ECBT1H331KB5	330P 50V [M]
C923	ECBT1H331KB5	330P 50V [M]
C924	ECBT1H331KB5	330P 50V [M]
C925	ECBT1H331KB5	330P 50V [M]
C926	ECBT1H331KB5	330P 50V [M]
C927	ECBT1H331KB5	330P 50V [M]
C928	ECBT1H331KB5	330P 50V [M]
C929	ECBT1H331KB5	330P 50V [M]
C930	ECBT1H331KB5	330P 50V [M]
C932	ECBT1H101KB5	100P 50V [M]
C933	ECBT1H101KB5	100P 50V [M]

Ref No.	Part No.	Values & Remarks
C943	ECBT1H331KB5	330P 50V [M]
C944	ECEA1CKA100B	10 16V [M]
C945	ECBT1H103ZF5	0.01 50V [M]
C946	ECBT1H470J5	47P 50V [M]
C947	ECBT1H470J5	47P 50V [M]
C955	ECBT1H101KB5	100P 50V [M]
C962	ECBT1H561KB5	560P 50V [M]
C963	ECBT1H102KB5	1000P 50V [M]
C991	ECBT1H101KB5	100P 50V [M]
C992	ECBT1H101KB5	100P 50V [M]
C993	ECBT1H101KB5	100P 50V [M]
C994	ECBT1H101KB5	100P 50V [M]
C995	ECBT1H101KB5	100P 50V [M]
C996	ECBT1H101KB5	100P 50V [M]
C997	ECEA1CKA100B	10 16V [M]
C998	ECBT1E103ZF5	0.01 25V [M]
C1027	ECEV0JA101P	100P 6.3V [M]
C1028	ECUVNC104ZFV	0.1 16V [M]
C1029	ECUV1E103KBV	0.01 25V [M]
C1030	ECUV1H152KBV	1500P 50V [M]
C1031	ECEV0JA101P	100P 6.3V [M]
C1032	ECUVNC104ZFV	0.1 16V [M]
C1033	ECUV1H101JCV	100P 50V [M]
C1035	ECUV1H101JCV	100P 50V [M]
C1036	ECUV1H102KBV	1000P 50V [M]
C1037	ECUV1H102KBV	1000P 50V [M]
C1038	ECUV1H102KBV	1000P 50V [M]
C1041	ECUV1H102KBV	1000P 50V [M]
C1042	ECUV1H102KBV	1000P 50V [M]
C1051	ECEV0JA101P	100P 6.3V [M]
C1052	ECEV0JA101P	100P 6.3V [M]
C1053	ECEV0JA101P	100P 6.3V [M]
C1054	ECUVNC104ZFV	0.1 16V [M]
C1055	ECEV0JA101P	100P 6.3V [M]
C1056	ECUVNC104ZFV	0.1 16V [M]
C1057	ECEV0JA101P	100P 6.3V [M]
C1058	ECUVNC104ZFV	0.1 16V [M]
C1059	ECEV0JA101P	100P 6.3V [M]
C1060	ECUVNC104ZFV	0.1 16V [M]
C1061	ECUVNC224KBN	0.22 16V [M]
C1062	ECUVNC104ZFV	0.1 16V [M]
C1063	ECUVNC104ZFV	0.1 16V [M]
C1064	ECUVNC104ZFV	0.1 16V [M]
C1065	ECUVNC104ZFV	0.1 16V [M]
C1066	ECUVNC104ZFV	0.1 16V [M]
C1067	ECUVNC104ZFV	0.1 16V [M]
C1068	ECUVNC104ZFV	0.1 16V [M]
C1069	ECUV1H102KBV	1000P 50V [M]

Ref No.	Part No.	Values & Remarks
C1070	ECUV1H102KBV	1000P 50V [M]
C1071	ECUVNC104ZFV	0.1 16V [M]
C1072	ECUV1H101JCV	100P 50V [M]
C1073	ECUV1H101JCV	100P 50V [M]
C1074	ECUVNC104ZFV	0.1 16V [M]
C1075	ECUV1H102KBV	1000P 50V [M]
C1076	ECUV1H102KBV	1000P 50V [M]
C1077	ECUV1H101JCV	100P 50V [M]
C1201	ECBT1H471KB5	470P 50V [M]
C1202	ECBT1H471KB5	470P 50V [M]
C1203	ECEA1CKA330B	33 16V [M]
C1204	ECEA1CKA330B	33 16V [M]
C1205	ECBT1H121KB5	120P 50V [M]
C1206	ECBT1H121KB5	120P 50V [M]
C1207	ECQB1H222JM3	2200P 50V [M]
C1208	ECQB1H222JM3	2200P 50V [M]
C1209	ECCR1H391J5	390P 50V [M]
C1210	ECCR1H391J5	390P 50V [M]
C1211	ECBT1E103ZF5	0.01 25V [M]
C1212	ECBT1E103ZF5	0.01 25V [M]
C1213	ECEA1CKA100B	10 16V [M]
C1214	ECEA1CKA100B	10 16V [M]
C1215	ECBT1H102KB5	1000P 50V [M]
C1216	ECEA1VKA4R7B	4.7 35V [M]
C1217	ECBT1E103ZF5	0.01 25V [M]
C1218	ECEA1CKA100B	10 16V [M]
C1219	ECBT1E103ZF5	0.01 25V [M]
C1220	ECQV1H823JZ3	0.082 50V [M]
C1221	ECQV1H224JZ3	0.22 50V [M]
C1223	ECBT1H102KB5	1000P 50V [M]
C1224	ECBT1H102KB5	1000P 50V [M]
C1225	ECEA1VKA4R7B	4.7 35V [M]
C1226	ECEA1VKA4R7B	4.7 35V [M]
C1227	ECBT1H331KB5	330P 50V [M]
C1228	ECBT1H331KB5	330P 50V [M]
C1229	ECBT1H331KB5	330P 50V [M]
C1230	ECBT1H331KB5	330P 50V [M]
C1231	ECBT1E103ZF5	0.01 25V [M]
C1232	ECBT1E103ZF5	0.01 25V [M]
C1233	ECEA1CKA100B	10 16V [M]
C1234	ECEA1CKA100B	10 16V [M]
C1235	ECBT1H102KB5	1000P 50V [M]
C1237	ECEA1VKA4R7B	4.7 35V [M]
C1238	ECEA1VKA4R7B	4.7 35V [M]
C1239	ECBT1H331KB5	330P 50V [M]
C1240	ECQB1H223JM3	0.022 50V [M]
C1241	ECBT1H331KB5	330P 50V [M]
C1242	ECEA1VKA4R7B	4.7 35V [M]

Ref No.	Part No.	Values & Remarks
C1243	ECEA1VKA4R7B	4.7 35V [M]
C1244	ECEA1VKA4R7B	4.7 35V [M]
C1245	ECEA1VKA4R7B	4.7 35V [M]
C1246	ECEA1VKA4R7B	4.7 35V [M]
C1251	ECBT1E103ZF5	0.01 25V [M]
C1252	ECBT1E103ZF5	0.01 25V [M]
C1260	ECEA1CKA100B	10 16V [M]
C1261	ECEA1CKA100B	10 16V [M]
C1262	ECEA1CKA100B	10 16V [M]
C1263	ECBT1H391KB5	390P 50V [M]
C1264	ECBT1H391KB5	390P 50V [M]
C1265	ECBT1H151KB5	150P 50V [M]
C1266	ECBT1H151KB5	150P 50V [M]
C1267	ECEA1CKN100B	10 16V [M]
C1268	ECEA1CKN100B	10 16V [M]
C1269	ECEA1CKN100B	10 16V [M]
C1270	ECEA1CKN100B	10 16V [M]
C1271	ECEA1CKA100B	10 16V [M]
C1272	ECBT1E103ZF5	0.01 25V [M]
C1273	ECEA1CKA100B	10 16V [M]
C1274	ECEA1CKA100B	10 16V [M]
C1275	ECQB1H333JM3	0.033 50V [M]
C1281	ECEA1HKA3R3B	3.3 50V [M]
C1282	ECEA1HKA3R3B	3.3 50V [M]
C1283	ECEA1HKA3R3B	3.3 50V [M]
C1284	ECEA1HKA3R3B	3.3 50V [M]
C1285	ECEA1CKA100B	10 16V [M]
C1286	ECEA1CKA100B	10 16V [M]
C1287	ECEA1CKA100B	10 16V [M]
C1288	ECBT1E103ZF5	0.01 25V [M]
C1289	ECBT1E103ZF5	0.01 25V [M]
C1290	ECBT1E103ZF5	0.01 25V [M]
C1291	ECBT1H101KB5	100P 50V [M]
C1292	ECBT1H101KB5	100P 50V [M]
C1293	ECBT1H101KB5	100P 50V [M]
C1301	ECBT1H150J5	15P 50V [M]
C1302	ECBT1E103ZF5	0.01 25V [M]
C1303	ECBT1E223ZF5	0.022 25V [M]
C1304	ECBT1H150J5	15P 50V [M]
C1305	ECBT1E103ZF5	0.01 25V [M]
C1306	ECBT1E223ZF5	0.022 25V [M]
C1307	ECBT1E103ZF5	0.01 25V [M]
C1308	ECBT1H104ZF5	0.1 50V [M]
C1309	ECBT1H104ZF5	0.1 50V [M]
C1310	ECBT1H104ZF5	0.1 50V [M]
C1313	ECA1EPXS470B	47 25V [M]
C1314	ECBT1H101KB5	100P 50V [M]
C1315	ECBT1H101KB5	100P 50V [M]

Ref No.	Part No.	Values & Remarks
C1316	ECBT1H101KB5	100P 50V [M]
C1318	ECBT1E103ZF5	0.01 25V [M]
C1683	ECBT1C332KR5	3300P 16V [M]
C1684	ECBT1C332KR5	3300P 16V [M]
C1685	ECBT1E103ZF5	0.01 25V [M]
C1702	ECA1AM472E ⚠	4700 10V [M]
C1704	ECEA1HKA010B	1 50V [M]
C1705	ECEA1HKA010B	1 50V [M]
C1706	ECBT1E103ZF5	0.01 25V [M]
C1707	ECEA1AKA101B	100 10V [M]
C1710	ECEA0JKA470B	47 6.3V [M]
C1711	ECEA1CKA100B	10 16V [M]
C1901	ECBT1H104ZF5	0.1 50V [M]
C1902	ECEA0JKA101B	100 6.3V [M]
C1903	ECBT1E103ZF5	0.01 25V [M]
C1904	ECEA1HKA010B	1 50V [M]
C1905	ECBT1E103ZF5	0.01 25V [M]
C1906	ECBT1E103ZF5	0.01 25V [M]
C1907	ECBT1E103ZF5	0.01 25V [M]
C1908	ECEA1HKA010B	1 50V [M]
C1909	ECBT1C472MR5	4700P 16V [M]
C1910	ECBT1H101KB5	100P 50V [M]
C1911	ECBT1H102KB5	1000P 50V [M]

■ Packing Materials & Accessories

Notes : * Important safety notice :
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors),etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
* The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)
* Parts without these indication can be used for all areas.
* The " (SF) " mark denotes standard part.
* [M] in Remarks column indicates parts supplied by **MESA**.
* Remote Control Unit : Supply period for three years from termination of production.
* Reference for O/I book languages are as follows :

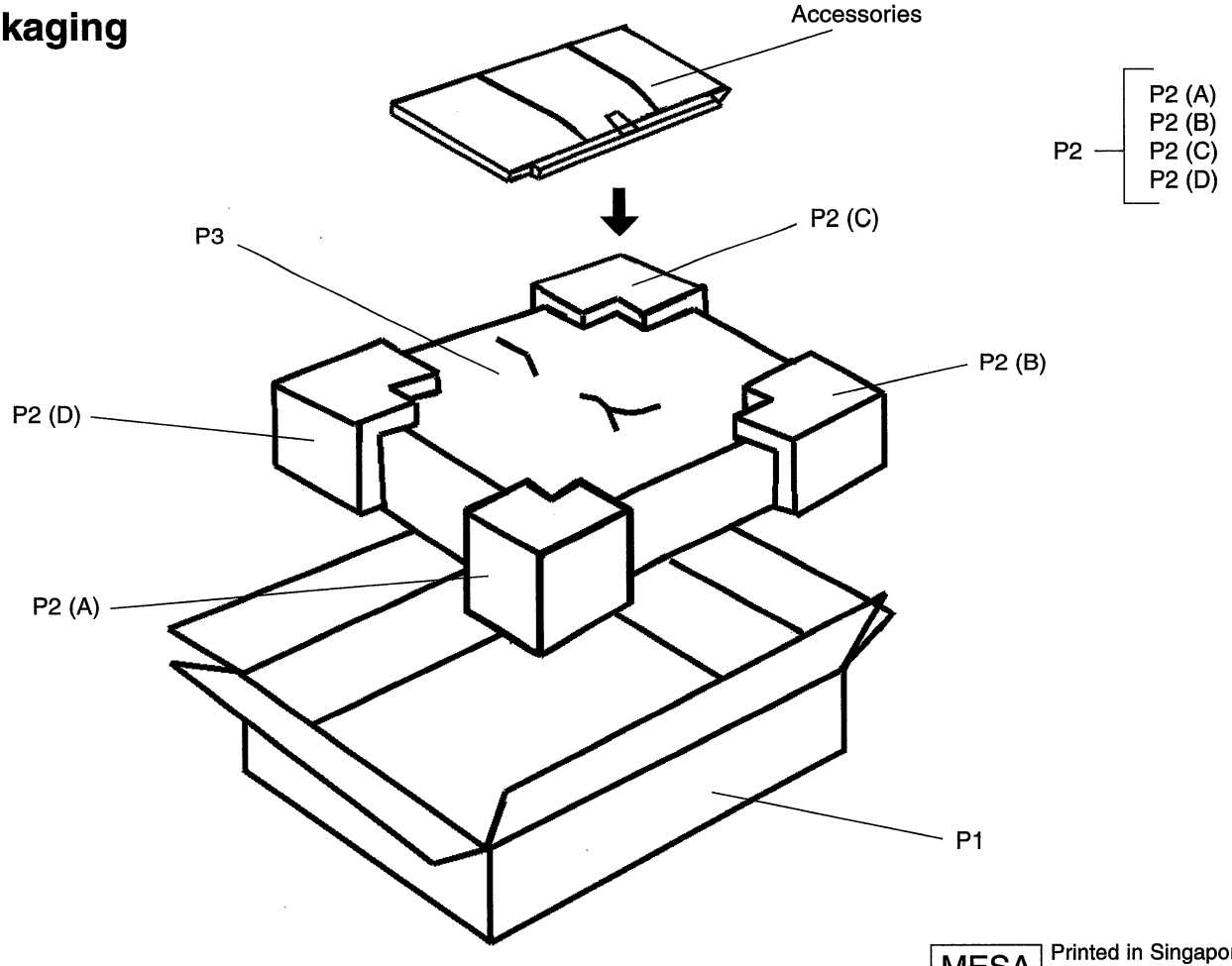
Ar : Arabic Cf : Canadian French Co : Chinese (old) Cn : Chinese (new) Cz : Czech Da : Danish
Du : Dutch En : English Fr : French Ge : German It : Italian Ko : Korean
Po : Polish Ru : Russian Sp : Spanish Sw : Swedish

Ref No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG4442	PACKING CASE	[M]
P2	RPN0966-2	POLYFOAM	[M]
P3	RPFX0005	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	EUR646497	REMOTE CONTROL	[M]

Ref No.	Part No.	Part Name & Description	Remarks
A1-1	UR64EC1987B	R/C BATTERY COVER	[M]
A2	RJA0019-2K	AC CORD (SF) ⚠	[M]EG E
A2	VJA0733	AC CORD (SF) ⚠	[M]EB
A3	RQT4904-E	O/I BOOK R/C (En/Sp/Sw)	[M]E
A3	RQT4905-R	O/I BOOK R/C (Ru/Cz/Po)	[M]E
A3	RQT4906-D	O/I BOOK R/C (Ge/It/Fr)	[M]EG
A3	RQT4907-H	O/I BOOK R/C (Du/Da)	[M]EG
A3	RQT4908-B	O/I BOOK R/C (En)	[M]EB
A3	RQT5015-E	O/I BOOK (En/Sp/Sw)	[M]E

Ref No.	Part No.	Part Name & Description	Remarks
A3	RQT5016-R	O/I BOOK (Ru/Cz/Po)	[M]E
A3	RQT5017-D	O/I BOOK (Ge/It/Fr)	[M]EG
A3	RQT5018-H	O/I BOOK (Du/Da)	[M]EG
A3	RQT5019-B	O/I BOOK (En)	[M]EB
A4	RSA0007	FM ANTENNA	[M]
A5	RSA0010	LOOP ANT UNIT	[M]
A6	SJP9009	ANT ADAPTER	[M]EB

■ Packaging



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G990506000P/K/M/J/S/H